

TELEPHONE
1852
NUMBER

TELEGRAPHIC
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CHEMICOS LONDON

THE CHEMIST AND DRUGGIST

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MELBOURNE
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ESTABLISHED IN

ENGLAND ... 1859. AUSTRALASIA ... 1885.

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A.  D.

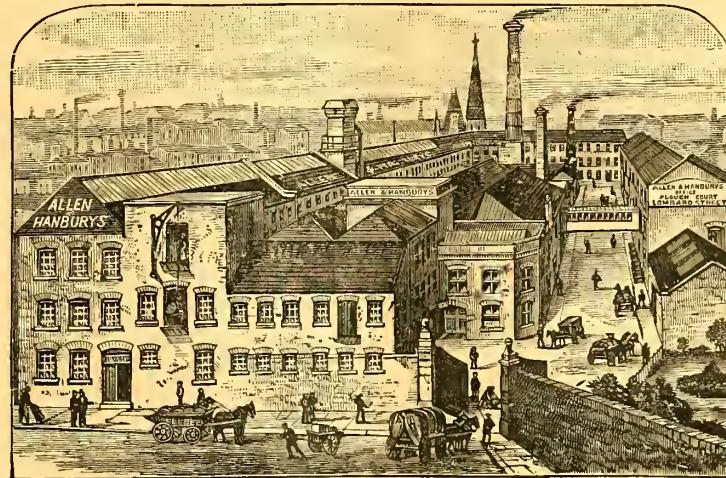
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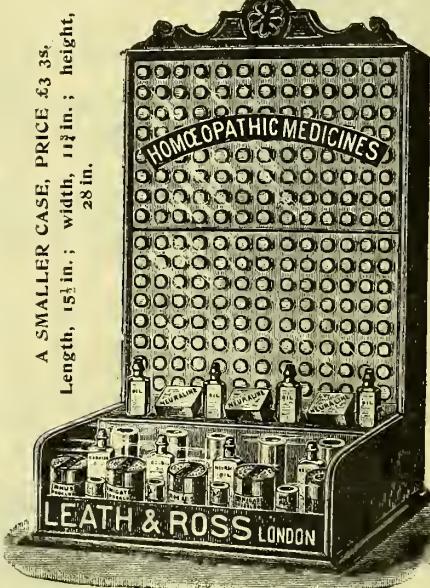
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Vaporized in a closed room will positively cure the most severe cases of Whooping Cough and other Diseases of the Air Passages,

such as

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It is the best

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	Each	Per dozen.
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Spare Cresolene, 2-oz.	1/1½	10/3 "
" 4-oz.	2/-	19/6 "
Cresolene Tablets	1/-	9/- "
Stands with Cup, boxed	—	30/- "
Extra Lamps, complete	—	10/- "
" without globes	—	9/- "
" Globes only	—	2/4 "
" Burners only	—	5/6 "
" Wicks only	—	3/- per gross.

SOLD BY ALL DRUGGISTS.

For valuable independent Medical testimony on the merits of Vapo-Cresolene read next page.



Diphtheria.

To the Editor of the "MORNING POST."

Sir,—About two years ago an accident revealed to me a disinfectant that has an extraordinary controlling power over Diphtheria—Kresoline. I know neither its origin nor composition, but I do know that it has cured many cases of diphtheria I have seen since. It is absolutely safe, does not interfere with other treatment, and is easy of application. A tent is to be built round the bed with sheets, the vaporiser placed inside it, the lamp lighted, and the receiver over the lamp kept constantly half full of Kresoline day and night. This will give complete relief in less than 24 hours. I shall now briefly relate the particulars of the last case I had under my care. A boy, about four years of age, was put to bed apparently quite well. Next morning he was found dull and heavy, was roused with difficulty, and refused all food and drink. When I saw him at 4 p.m. he lay in the same dull state, his neck swollen on both sides as if with mumps, his upper lip double its size, and his face a livid purple colour. He never roused up to notice anything until I took him out of bed and forced open his mouth to see his throat, the right side of which showed a large patch of diphtheritic membrane. I never expected the child to live, but ordered one drop of tincture of steel in water every hour, and Kresoline to be used freely. At one o'clock, or in about eight hours, the child asked for a drink; at nine the next morning he wanted to get up; and at 10 a.m. I found him convalescent. Of course, I give no technical details in your paper. I take the unusual course of publishing it in your journal because it will thus be brought directly before the public without loss of time, whereas in a medical paper it would probably receive no notice unless I were to publish a detailed report of some hundred cases. It would take some five years to collect these, and all this time cases would perish that might be saved. It is perfectly safe, and does not interfere with any other treatment, therefore I press it on the public. I have no interest whatever in Kresoline.

Yours, &c.,

M. D.

The Editor, "MORNING POST."

Sir,—Referring to the letter on the above subject, signed "M. D.," in your issue of Thursday last, may we, as sole agents in this country for Page's Vapo-Cresolene Company of New York, be permitted to point out that "Cresolene," not "Kresoline," is the correct spelling of the preparation referred to? If this little correction be not made, your readers who obtain "Cresolene" may imagine that it is not the "Kresoline" referred to by "M. D."

Yours, &c.,

ALLEN & HANBURY'S Ltd.,

FREDERICK J. HANBURY, Director.

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SAVARS Brilliantine
SAVARS Brunswick Black
SAVARS Bunion Plasters, Savars
SAVARS Cachou Lozenges
SAVARS Calves' Foot Jelly
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SAVARS Coal Tar Soap
SAVARS Coca Wine
SAVARS Cold Cream
SAVARS Cologne Cream

SAVARS Combination Medicine Spoon (China)
Corn Plasters, Savars
SAVARS Cosmetiques
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SAVARS Cream of Lilies
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SAVARs Fly Papers

SAVARs Fossiline, Simple

SAVARs „ Plaster, Adhesive, Savars
Adheres without warming, and may be easily
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SAVARs Fossiline Pomade

SAVARs Fuller's Earth, in Packets and Boxes

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SAVARs "Good Samaritan" Chest Protectors
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They are the cheapest Vest-shape Protectors
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Poor Man's Plasters, ordinary, Savars

Poor Man's Plasters, Porous, Savars.

We call special attention to these Plasters.

They are the same size as ordinary Poor Man's
Plasters, but spread on a Patented Material
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Porous Marginal Plasters, Savars.

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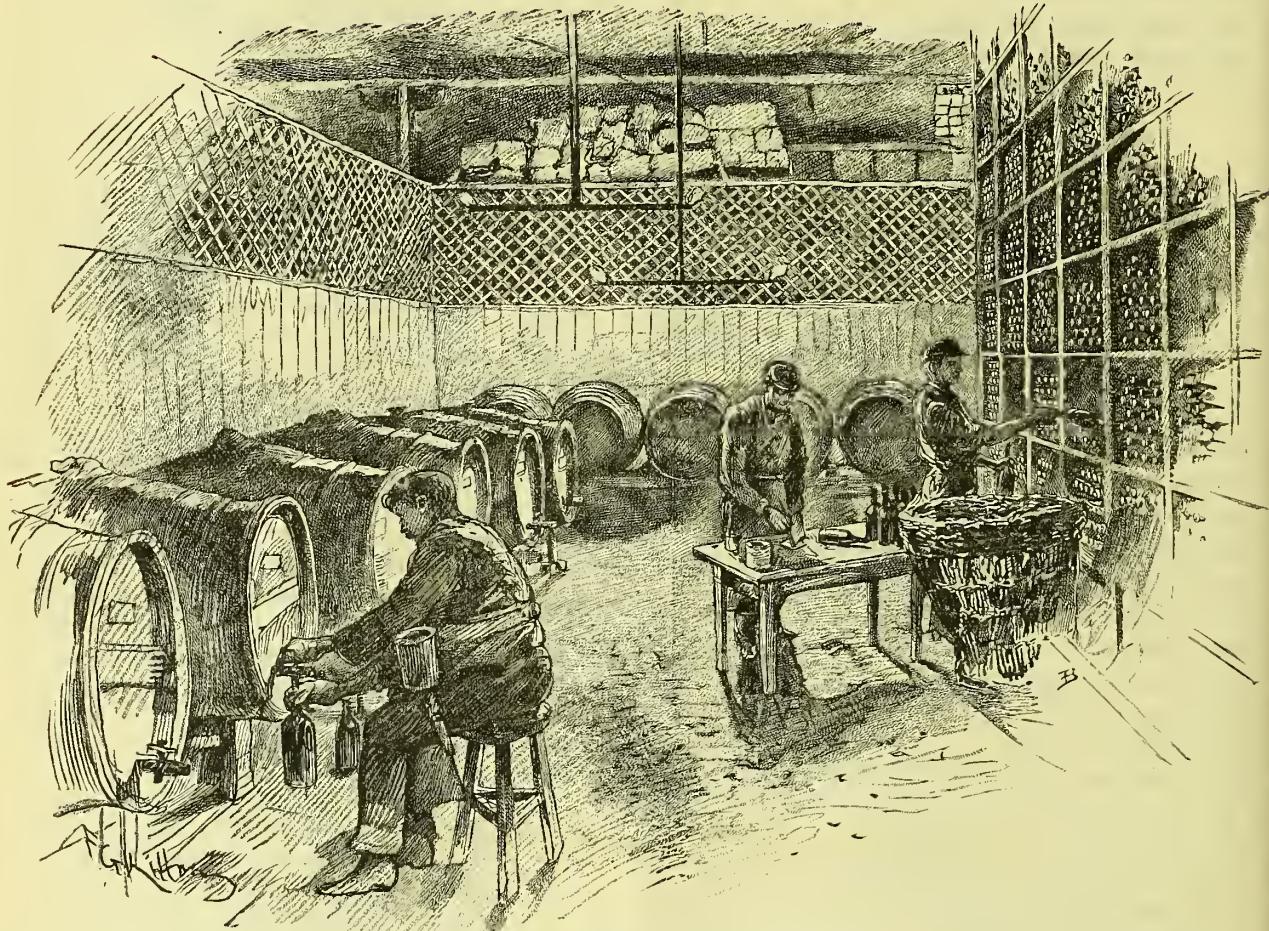
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Periodate Crystals (Weaver), 1/- size, 8/- per dozen net.

" " in bottle, 2/9 size, 26/- per dozen net.

" Neural 5/- per ounce net.

" the finest tonic known in medicine, 2/9 size, 26/- per dozen net.

" Water pint size, 5/- each net.

" 2/9 size, 26/- per dozen net. (For throat and febrile ailments rapidly reduces temperature by neutralising toxines.)

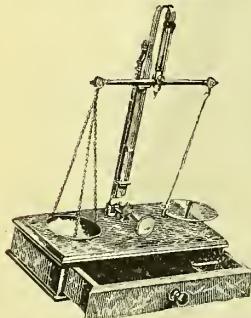
Periodate Water (Weaver), pint size, 5/- each net.

" Pills (for intestinal antiseptis), 4/- per gross net.

" In upwards of 600 cases of Influenza the Periodates cut short the attack within twelve hours." DR. GODFREY.

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Best and Safest Dentifrice.

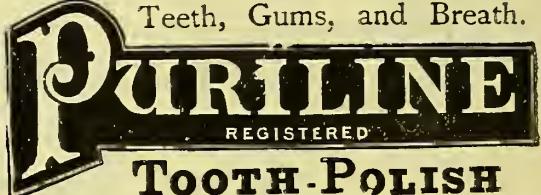
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PREVENTS DECAY.

1S. **OS TOOTH BLOCK** 1S.
REFUSE IMITATIONS
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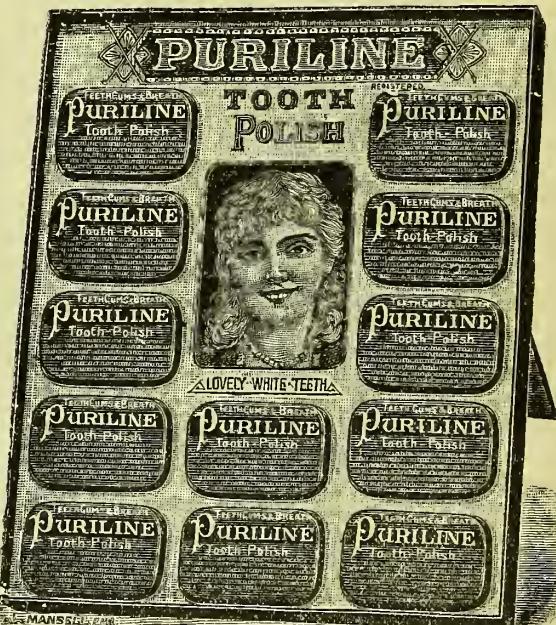
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TOOTH-POLISH

Will purify and beautify the Teeth with a pearly whiteness polish the enamel; prevent tartar; destroy all living germs and keep the mouth in a delicious condition of comfort, health, purity, and fragrance. Non-gritty, and absolutely pure and harmless to use. Price One Shilling, in handsome Enamel Box.

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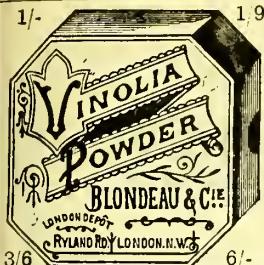


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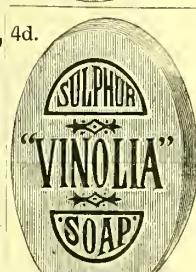
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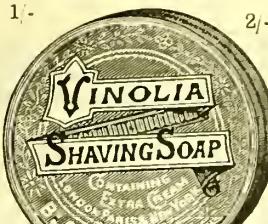
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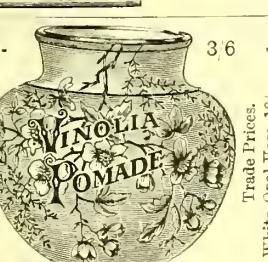
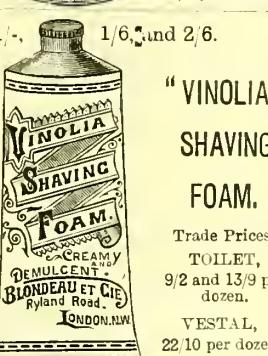


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(IMPROVED.)**
BLONDEAU'S CLARIFIED
BROWN WINDSOR SOAP.
HONEY SOAP.
ELDER FLOWER SOAP.
OATMEAL SOAP.
ALMOND AND
GLYCERINE SOAP.
WHITE ROSE AND
CUCUMBER SOAP.
Trade Prices.
1 doz. Tablets, 1/6. 3 doz. Tablets, 4/6.
6 doz. Tablets, 9/-



"VINOLIA" SHAVING SOAP.

(Flat Cakes.)
Trade Prices.—Premier, 8/- per dozen.
Toilet, 18/4 per dozen. Vestal, 27/6 per dozen.



"VINOLIA" POMADE.

Trade Prices.
In White Opal Vase, 16/- per dozen.
"Antique" 32/-



Lait
"Vinolia"



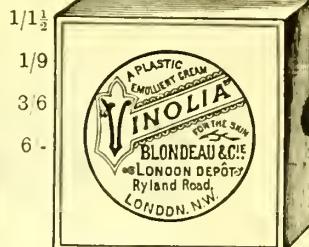
In Elegant
Vase.

Trade Price.
41/- per dozen.



In Elegant
Vase.

Trade Price.
41/- per dozen.



"VINOLIA," for Itching, Face Spots.
Trade Prices.
10/8, 16/9, 33/4, 57/8 per dozen.



"VINOLIA"
EAU DE
COLOGNE,
Concentrated Pure,
Delicate.
Trade Prices.

No. 1. 2-oz. small
bottles, 9/6 per doz.

No. 2. 4-oz. large
bottles, 17/3 per doz.

No. 3. Small wicker
bottles, 27/3 per doz.

No. 4. Medium
ditto, 55/- per doz.



"VINOLIA"
BRILLIANTINE,
For the Hair.
Trade Prices.
8/-, 16/-, 28/- per doz.



"VINOLIA"
BRILLIANTINE,
FOR THE MOUSTACHE.
Trade Prices.
8/-, 16/-, 28/- per doz.

"VINOLIA"
PERFUMES.

"Vinolia" Bouquet, Marequill, Jequila, Losaria, Wood Violet, White Heliotrope, Ess. Bouquet, Frangipanni, Jockey Club, Maréchal Niel, Millefleur, White Rose, Stephanotis, Opopanax, Ylang Ylang, Musk, Ambergris, Amaryllis, White Lilac, Jasmin, Musk Rose, Honeysuckle, New Mown Hay.

Trade Prices.—10/-, 14/-, 24/-, 40/-, 72/- per dozen.



"VINOLIA"
DENTIFRICE.

No. 2. Premier, in Metal Boxes.

Trade Prices.
4/- & 8/- per doz.

AMERICAN.
Trade Prices.
13/9, 41/-, 68/6.

ENGLISH.
Trade Prices.
22/10, 68/6, 123 per dozen.

LYPSYL (for the Lips). 1/-

Trade Prices.—In Flat Boxes, 2/3 per dozen boxes. In Silver Metal Tubes, 4/- and 8/- per dozen.

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W. Ransom & Son

(ESTABLISHED HALF A CENTURY),

MANUFACTURING PHARMACEUTICAL CHEMISTS,

Distillers of Essential Oils and Cultivators of Medicinal Plants,

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Scammony Resin. Jalap Resin. Elaterium.

Aloin. Euonymin. Leptandrin, &c.

Mercurial Pill and Ointment.

Dried Medicinal Leaves.

English Dandelion Root.

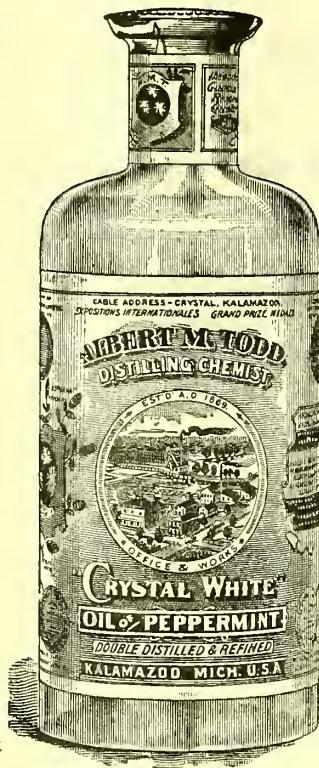
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CRYSTAL WHITE,
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SPEARMINT,
WORMWOOD,
TANSY, &c.



These ESSENTIAL OILS are
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UNEQUALLED in
SOLUBILITY, FLAVOUR,
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To secure the most complete introduction possible, the prices are placed much below their true value, bringing the *highest quality produced within the reach of all.*

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PEACH KERNEL (Ol. Amygd. Persic. Dulc.)

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Oil of Neroly, Rose Water, and
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WHITE
HELIOTROPE
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2/- PER BOTTLE.

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(First introduced by the late JOSEPH OKELL.)

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling Perfume in the market.

Retail Prices, 1/-, 1/9, 3/6, 6/-, 7/6, 10/6 per Bottle.

ALSO 3d. SAMPLE BOTTLES.

Shippers and Wholesale Buyers supplied on the best terms by

THOMAS WEST, 1185 & 1187 CHESTER ROAD, MANCHESTER.
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HEINRICH HAENSEL'S TERPENELESS Essential Oil of LEMON

30 times the strength of ordinary oil.

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30 times the strength of ordinary oil.

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2½ times the strength of ordinary oil.

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2 times the strength of ordinary oil.

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2½ times the strength of ordinary oil.

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20 times the strength of ordinary oil.

The above Essential Oils are *absolutely free from the coarse
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THEY ARE THE MOST SOLUBLE, STRONGEST,
PUREST, AND BEST KEEPING
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MADRID, 1890.

CAPE TOWN, 1878.



LONDON 1878.



AMSTERDAM, 1883.



INTERNATIONAL HEALTH, 1884.



TRUSSELS, 1889.



MADRID, 1890



TUNIS, 1891.



TUNIS, 1891.

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JAMES SINCLAIR & SON, SOUTHWARK, LONDON.



A DELIGHTFULLY PERFUMED SOAP

Made of selected materials. Superfatted and non-alkaline. In high repute among the Nobility and Aristocracy in England and the Colonies.

In Boxes of Three Tablets, per doz. boxes 12/-.

VELOOURS or VELVET SOAP.

Balsamic and Musk Odour; elegantly wrapped; Purest Soap; in Boxes of three Tablets, per doz. boxes 9/-.

TREBLE-MILLED Toilet Soap.

In Varieties—Windsor, Rose, Almond, Glycerine and Cucumber, Elder-flower, Violet, Heliotrope, Cold Cream, Opopanax, Honey, Cold Cream and Honey, in boxes of three tablets, per doz. 6/-.
In boxes of 12 tablets 22/-.

MEDICATED SOAPS.

Coal Tar, Carbolic, Camphor, Camphor and Carbolic, Juniper Tar and Borax Soap, in boxes of 3 tablets, per doz. boxes, 6/-.

Special Brands from Special Formulas prepared with greatest care.

TOILET SOAPS IN VARIOUS SHAPED TABLETS.

FLORAL, HONEY, ROSE, WINDSOR, ALMOND, GLYCERINE, LAVENDER, &c., &c.

Tablets, 4, 5, or 6 to the pound, in 7-lb. and 14-lb. boxes, per cwt. 44/-.
ditto, cheaper, less perfume 38/-.

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Orange, Lemon, or Cedar, oval tablets, per gross	:	:	:	:	10/-
do. do., smaller size, do.	:	:	:	:	8/-

SPECIAL SOAPS FOR EXPORT TRADE FROM 28/-

PETROLEUM JELLY, pure white, in tins about 8 lbs., 56/- per cwt; 28 lbs., 50/- per cwt.; in barrels about 4 cwt., 46/- per cwt. Ditto, Yellow, tins 30/- per cwt.; 28 lbs., 28/- per cwt.; in barrels about 4 cwt., 24/- per cwt.

We will spare no effort to secure Business. A Trial Solicited.

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**COOK'S
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Or every description, are **GUARANTEED PURE.**

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FOR THE COMPLEXION.

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THE MOST LUXURIOUS SOAP MADE.

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SPECIALITIES MADE FOR THE TRADE.

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For Curing and Relieving ECZEMA, RINGWORM, and all Skin Affections.

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IF NOT, SEND TRIAL ORDER, it will lead to GOOD BUSINESS.

THEY WILL PAY YOU. THEY ARE RELIABLE AND WELL KNOWN.

THEY HAVE STOOD THE TEST OF YEARS.

THEY ARE ACKNOWLEDGED TO BE THE BEST.

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	Doz.	20/-	28/-	40/-	84/-	
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	per doz.	28/-	40/-	84/-	168/-	
2. Quinine and Arnica Hair Wash	contains in these two ingredients the elements of regeneration necessary in the great majority of cases from loss of hair .. sizes	3/6	5/-	10/6		
	per doz.	28/-	40/-	84/-		
3. Floral Extract	a delightful preparation for cleansing the Hair and imparting a beautiful softness and fragrance.	sizes	3/6	5/-	10/6	
	per doz.	28/-	40/-	84/-		
6. Melliflora	a combination of Pure Honey with Extract of Flowers; is strongly recommended as a choice Dressing for the Hair.	sizes	2/6	3/6	5/-	10/6
	per doz.	20/-	28/-	40/-	84/-	
7. Egg Julep. This simple preparation of the Yolk of Egg is far superior to the spirituous tinctures generally sold under the title of Hair Washes						
	per doz.	16/-	32/-			
8. Concentrated Egg Julep, in Toilet Jars. Will keep good any length of time and in any climate						
	per doz.	20/-	40/-	84/-		
9. The Stimulating Lotion. This Lotion is recommended by Mr. Truefitt in cases where the Hair has fallen off after illness, &c.						
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	size	5/-	10/6	per doz.	40/-	84/-
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SEA FOAM OF COLOMBIA'S SHORE possesses all the refreshing elements of the Salt Sea Spray, and infuses new vitality into the hair.

AMUR-IKAN.—A Real Refresher for the Hair.—There is a condition of the hair known to American specialists as "tired hair." It has a dull, jaded appearance, which is not due to disease, but to temporary cause, excitement, worry, late hours, &c. An application of AMUR-IKAN to hair in this condition is what a pick-me-up is to the system, a real refresher and reviver.

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Low, Son & Co., 81 Great Queen Street, W.C.
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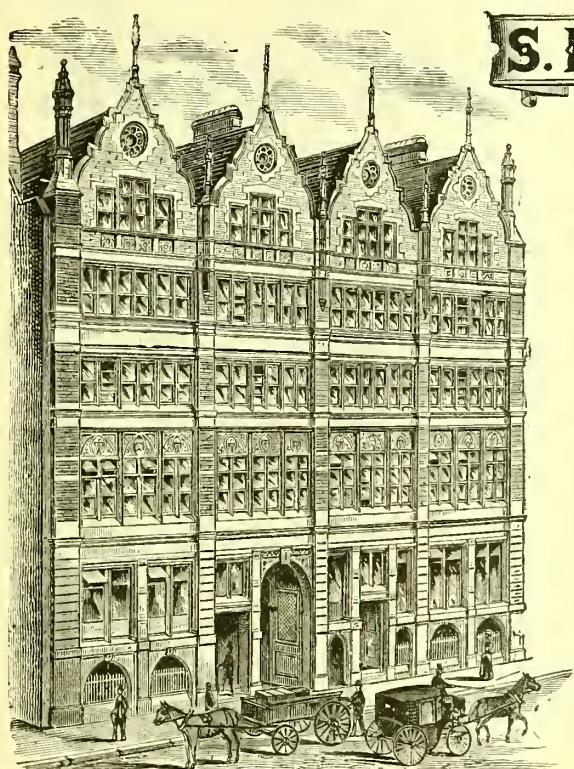
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Universally adopted by the Medical Profession for
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For External and Internal Irritation of every kind.

PACKED IN OASES—

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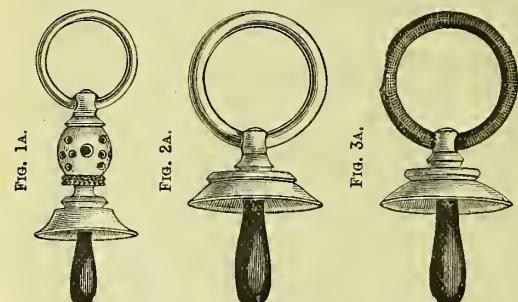
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Special Quotations
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MARGERISON'S TOILET SOAPS

and that without any advertising, is a testimony to their high-class quality and the good value to the consumer.

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Mitcham
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IMPROVED LAVENDER,
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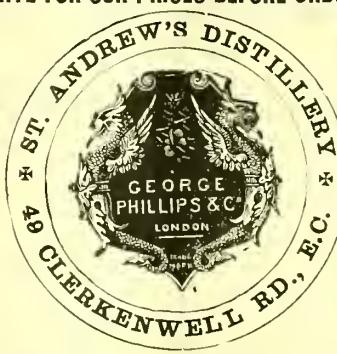
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60 O.P. AT LOWEST PRICES. 56 O.P.



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7 YEARS OLD. THE CREAM OF SCOTCH WHISKY. Per dos. **42/-** Per dos.

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ESSENTIAL OILS

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SUPPORT HOME INDUSTRIES.



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KENT'S
BRUSHES.

See pp. 209-212, Summer Issue; also Diary, 1895,
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Perfume Manufacturers, Cannes-Grasse, France.
 Established 1820.
 Gold Medals—Philadelphia, 1876; Cannes-Grasse, 1893; Nice, 1884.

FRENCH ESSENTIAL OILS,
 PURE OLIVE OILS, POMADES, &c.

SPECIALITY—Finest Quadruple Extracts
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SOLE MAKERS OF THE

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Proprietary Medicines, Perfumery, Mineral Waters, Lozenges, Druggists' and Photographic Sundries.

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A. S. LLOYD'S EUXESIS,

FOR

SHAVING WITHOUT SOAP, WATER, OR BRUSH.

R. HOVENDEN & SONS having purchased under an administration suit the business of the late A. S. LLOYD, with the receipt, trade-mark, and goodwill of the celebrated Euxesis, the trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses.

The label is printed with Black Ink only on a yellow ground.

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CEMENTED DARK BLUE

CAMBRIDGE

CEMENTED LIGHT BLUE

TOOTH BRUSHES PER DOZ.

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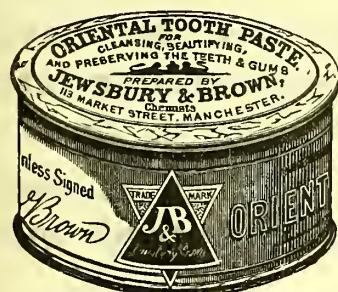
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JEWSBURY & BROWN'S

ORIENTAL TOOTH PASTE.

This old-established and increasingly favourite Dentifrice has been over Sixty Years before the Public. It is warranted to retain its properties and keep in good condition in any climate. The original and only genuine is manufactured solely by



JEWSBURY & BROWN, Chemists, MANCHESTER,

and is distinguishable by the Trade Mark, printed in red and green, a facsimile of which is annexed. Particular attention should be paid to this guarantee of genuineness, as numerous imitations are offered. Sold universally by Chemists and Perfumers, at 1s. 6d. and 2s. 6d.

The Trade and Shippers supplied by the leading houses in London and elsewhere. Bills and Show Cards forwarded on receipt of address cards and directions for enclosure.

A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

CAUTION.

The labels on genuine EUXESIS bear signature of Inventor, A. S. LLOYD, in BLACK INK, and the signature of his Widow, AIMÉE LLOYD, in RED INK. Refuse all other.

Manufacturer : AIMÉE LLOYD

(WIDOW OF A. S. LLOYD, FORMERLY OF 27 GLASSHOUSE STREET),

3 SPUR STREET, Leicester Square, LONDON.

N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).



SPONGES

Highest Awards: { Silver Medal & Diploma of Honour, Fisheries Exhibition, 1883.
 { Silver Medal & Diploma of Honour, Health Exhibition, 1884.

HENRY MARKS & SONS, LIMITED,
 42, 43, 44, 45, & 46 Houndsditch, E.,
 AND
 5 Goring Street, E.C.,
 SPONGE IMPORTERS, EXPORTERS, & MERCHANTS.

TO meet the increased demand of the Wholesale and Export Trade for extended assortments of Sponges, we have secured a new block of buildings, adjoining and opening into our old premises.

The extent and superiority of our stock can thus be seen to advantage, and every class and assortment of Sponges will be exhibited.

JAMES BURROUGH S.V.R. CALE ST., CHELSEA, S.W.
 and Methylated Spirit
 AT LOWEST PRICES.
 WRITE FOR QUOTATIONS.

BOORD & SON,
 DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS,
 ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.
 Quotations for S.V.R. Methylated Spirit and Finish on application.
 FINEST ORANGE WINE FOR QUININE.

CREOSOTE AND ALL TAR PRODUCTS.
VARNISH, COLOURS & CHEMICALS.
OILS OF ALL KINDS.

S. BOWLEY & SON, Refiners, Distillers, and Manufacturers, WELLINGTON WORKS, BATTERSEA BRIDGE, S.W.

WILLIAM BURTON & SONS, BETHNAL GREEN, LONDON.

Hydrogen Peroxide, Indigo Extract, Orchil, Cudbear, Logwood Extract, Aniline Dyes.
 Sole Agents in United Kingdom and Colonies, excepting Canada, for

The New Bleach, **SODIUM PEROXIDE** (Aluminium Co., Ltd.).
 For Bleaching Wool and all Fibres. For Metallurgy, &c.

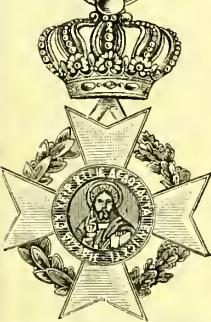
CRESSWELL BROTHERS**AND SCHMITZ.****Sponge Importers & Merchants**

1 & 2 Red Lion Square

LONDON, W.C.

*The only firm with its own establishments on the Sponge Fisheries.***CRESSWELL BROTHERS & SCHMITZ**

the LARGEST and FINEST Stock of Sponges EVER SEEN in London. These Goods are the proceeds of the New Fishery, and have been collected ON THE SPOT by their Manager in Greece, assisted by TWO of their LONDON PARTNERS—Messrs. F. R. & A. G. CRESSWELL. They have been packed at the firm's own establishment at Ægina (Greece), and no pains have been spared to ensure the assortments and selections being the most suitable for the various markets of the world.



Greek Cross of Knighthood.

Honours from the King of Greece.

CRESSWELL BROTHERS & SCHMITZ have been honoured by the King of Greece with the decoration of the Cross of Knighthood (of which a facsimile is here reproduced) as a distinction earned by their efforts to promote direct business between that country and Great Britain. The conferring of this much-prized and seldom-bestowed honour upon the firm is a proof that they stand in an unrivalled position in the trade.

SELECT SPONGES FOR CHEMISTS' TRADE.

The following Goods are the Best Value in the Trade:—

BLEACHED CUBAN.

At per string or dozen
WOOL, GRASS, YELLOW AND FINE.
1/- 2/- 3/- 4/- 6/- 9/- 12/-

CARDED SPONGES.

Fresh line, mounted on handsome blue card of new design. We originated the Carding of sponges, and continue to supply the best goods on the market.

HONEYCOMB and TURKEY.

Retail.	Per Gross.	Retail.	Per Gross.
School, 1d., 2 doz. on card	3/-	Toilet, 1/6, $\frac{1}{2}$ doz. on card	108/-
1d., 1 "	6/-	2/-, $\frac{1}{2}$ "	144/-
Toilet, 2d., 1 "	12/-	2/6, $\frac{1}{2}$ "	180/-
" 3d., 1 "	18/-	3/-, $\frac{1}{2}$ "	18/-doz.
" 4d., 1 "	24/-	"	
" 6d., $\frac{1}{2}$ "	36/-	Bath, 3/6, $\frac{1}{2}$ "	21/-
" 1/-, $\frac{1}{2}$ "	72/-	4/-, $\frac{1}{2}$ "	24/-

SPONGES IN ORIGINAL CASES.

Genuine unbleached goods as imported.

HONEYCOMB At following average prices
FINE TURKEY per piece.
AND
BROWN TURKEY 1/-, 2/-, 3/-, 4/-, 6d., 7d., 8d., 9d., 10d., 1/-
1/2, 1/3, 1/4, 1/6, 1/8, 1/9, 2/-, 2/3, 2/6,
2/9, 3/-, 3/3, 3/6, 3/9, 4/-, 4/6, 5/-, 6/-, 7/6
and upwards.

In 1st, 2nd, and 3rd qualities. Full details sent on application.
REPACKED CASES to contain BUYERS' own Requirements.

SPONGES in SMALL PACKAGES.Fine TURKEY, Fine EGYPTIAN and HONEYCOMB,
1st, 2nd, and 3rd Qualities.BLEACHED or UNBLEACHED. (State which in ordering.)
On Strings of 1 dozen pieces, or loose in Bags.

At per dozen.

3/- 4/- 6/- 9/- 12/- 15/- 18/- 24/- 30/- 42/- 48/- 54/- 60/- 66/- 72/-

To Buyers of original Cases, or over £5 worth of loose goods, and who wish to make a good display, C. B. & S. are willing to present a Photograph of Sponge Fishing, 15 in. by 10 $\frac{1}{2}$ in., together with Printed Show Bills. Mention when ordering.

A FULL LINE OF CHAMOIS LEATHERS, SPONGE BACS, WASHING & LOOFAH GLOVES, & LOOFAHS AT SPECIALLY LOW PRICES.
2 $\frac{1}{2}$ PER CENT. DISCOUNT FOR PROMPT CASH; NET, THREE MONTHS.

CRESSWELL BROS. & SCHMITZ, Sponge Importers, Exporters, 1 & 2 Red Lion Sq., London, W.C.
and Merchants, Additional Warehouse at 18 & 19.

SAVE MIDDLEMEN'S PROFITS, AND BUY FROM THE ONLY DIRECT IMPORTERS AND HOLDERS OF THE LARGEST STOCK EXISTANT.

Head-Quarters for Sponges.**Spring, 1895.**

CLEAN TO USE,

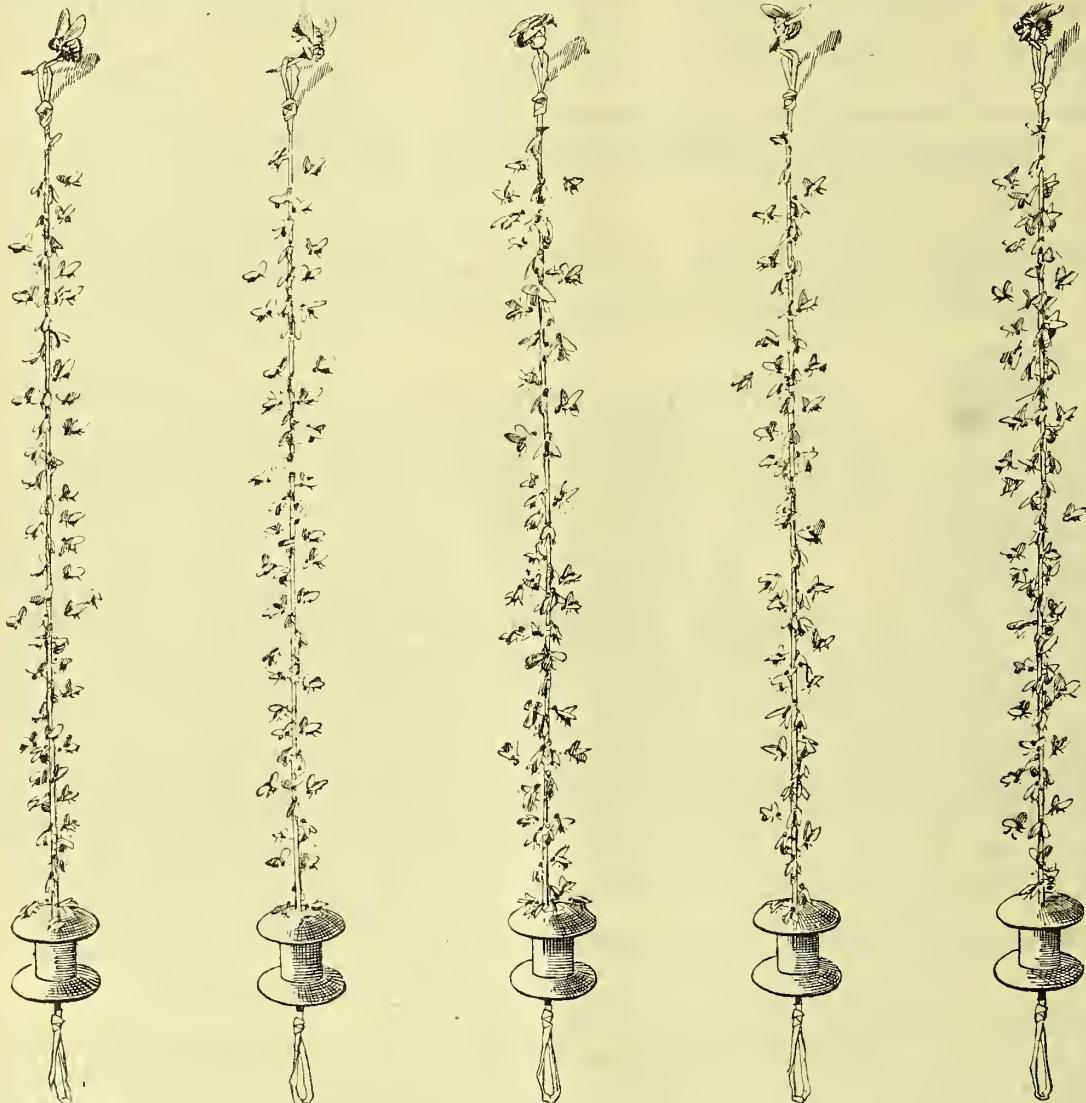
THE ONLY REEL COMFORT.

Can be carried in
the Pocket.**1d.**
EACH.**MARSHALL'S
FLY CATCHER****1d.**
EACH.DOES NOT SPOIL
BY KEEPING.

IS NOT OFFENSIVE TO THE SIGHT.

Catches more Flies than
Sticky Papers.GOOD IN ANY CLIMATE.
Specially suitable
for Export.

1 gross, 7/-. 10 gross at 6/6 per gross.



LONDON.
BARCLAY & SONS.
NEWBERY, F., & SONS.
SANGER, J., & SONS.

WHOLESALE AGENTS.
EXETER.
EVANS, GADD & CO.
MANCHESTER.
WOOLLEY, J., & CO.

NORWICH.
SMITH & SONS.
YORK.
RAIMES & CO.

AFRICA.
LENNON, G. B., & CO.
AUSTRALIA.
FELTON, GRIMWADE & CO.

TO PREVENT DISAPPOINTMENT ORDER EARLY.

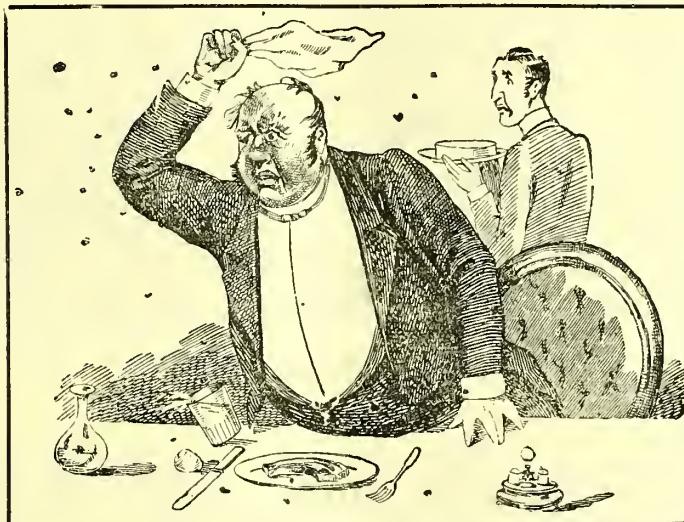
THE "FLY CEMETERY"

BY ROYAL LETTERS PATENT.

NON - POISONOUS.*The ORIGINAL and by far the BEST Sticky Fly Paper in the Market.*

ANNUAL SALE MILLIONS

Catches more
Flies in a day
than the
old-fashioned
Papers do in a
week.



Well known in
every Household
in the Kingdom.

Bears Large
Profits.

PRICE ONE PENNY.

The immense popularity of the "FLY CEMETERY" with the public has had the usual result attending the introduction and prosperity of all genuine articles in raising up a host of *imitations*, which for the most part disappoint the purchaser. We therefore warn our friends not to be misled by specious announcements, but when they order Sticky Fly Papers to insist upon having the "FLY CEMETERY."

SOLD BY ALL THE LEADING WHOLESALE HOUSES
LIBERAL TERMS.

SAMPLES AND TESTIMONIALS FROM

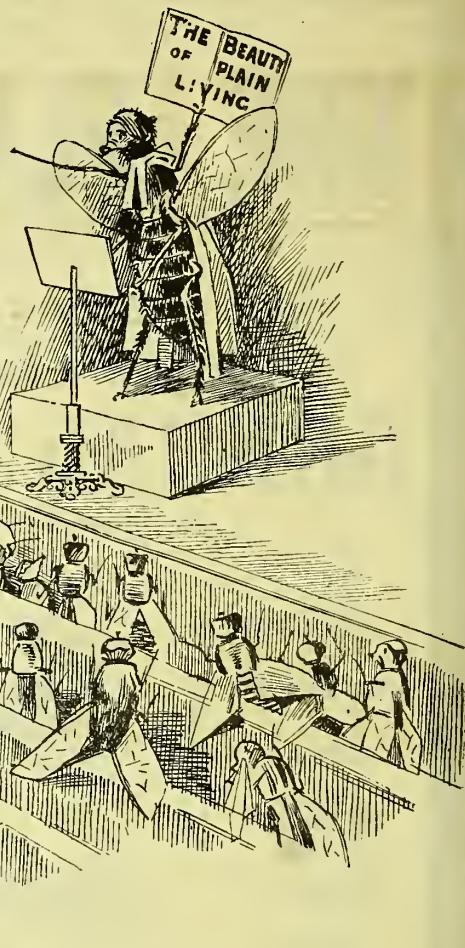
TUNBRIDGE & WRIGHT,
MANUFACTURERS, READING.

NORTH OF ENGLAND DEPOT—
4 GALLOWGATE, NEWCASTLE-ON-TYNE.

TELEGRAMS—
"FLIES READING."

A Homily for Flies.

The undoing of our race is the love of sweetness, through which the biped enemy of our kind seeketh to consummate our destruction. Wherefore, I implore you, enter not into the fields of seductive stickiness which thine adversary hath prepared, that he may profit by your weakness unto the taking of your lives.



HAVE COMFORT IN YOUR HOMES BY USING

THE PERFUMED STICKY FLY ENTICER

(BUCHAN'S PATENT).

THE MOST ATTRACTIVE AND DEADLY FLY PAPER IN EXISTENCE.

The Fly Paper of the Future.
Ahead of all others.

**ONE PENNY
EACH.**

Does not become dry.
No Leaky Edges.

The PERFUMES used in their Manufacture are those which have been FOUND BY EXPERIMENT to be the MOST PREFERRED BY FLIES.

DEATH JAM (RASPBERRY, STRAWBERRY, &c.) The Stickiest Compound out.

Catches WASPS, SCORPIONS, CENTIPEDES, SPIDERS, MOSQUITOES, and all other Crawling and Winged Pests, by spreading on Paper or Wood, or on String suspended from the Ceiling. INVALUABLE TO FRUIT GROWERS. Smear'd round the stems of fruit trees and bushes effectually traps Earwigs, Ants, and other fruit depredators.

In Tins, 6d., 1s., and 2s. 6d. each.

Manufactured only by D. D. BUCHAN, A.P.S., Chemist, Frioekheim, Scotland.

Sole Export Agents—MESSRS. BURCOYNE, BURBIDGES & CO., 16 Coleman Street, London, E.C.

FLY-ENTICER GUM (a New Line), in Tins 2d. each. Very saleable.

EUCALYPTUS OIL

.....

We beg to remind the Trade of our advantageous position to supply all descriptions of this Oil. Having a Branch House in Melbourne, we are able to procure both the Australian

GLOBULUS & AMYGDALINA

qualities first hand, and from our Grasse establishment we obtain our celebrated

FRENCH GLOBULUS.

guaranteed distilled in the spring or summer, containing 65 per cent. of Eucalyptol. On analysis this will be found to yield a larger percentage than any other kind offered.

WE ALSO OFFER EUCALYPTOL AT SPECIAL FIGURES.

☞ BEFORE BUYING ☜
WRITE FOR SAMPLES AND QUOTATIONS.

W. J. BUSH & CO., 18 Artillery Lane, LONDON.

HAS THE LARGEST SALE OF ANY SMELLING BOTTLE IN THE WORLD.



It is the most popular smelling article in the market, being well got up and largely advertised, commands a rapid sale, bears a large profit, and gives universal satisfaction.



Counter prescribers can recommend it with confidence for cold in the head, nervous headache, and faintness. Sent out in $\frac{1}{4}$ -dozen cases. Wholesale from all the Patent Medicine Depots.



Show Cards and Handbills from MACKENZIE'S CURE DEPOT, READING, ENGLAND.
Depot for United States and Canada—THE MACKENZIE DRUG COMPANY, Ltd., CHICAGO, ILL., U.S.A.

OL. EUCALYPTI, “Faulding.”

“STANDARDISED.”

Constant in composition and Guaranteed **PURE**.
Contains 50 per cent. exactly of Eucalyptol as
estimated by “Faulding’s Process.”

Price 4/6 lb. net.

EUCALYPTOL, “Faulding.”

“ABSOLUTE.”

A perfectly pure chemical compound, naturally
existent in many volatile oils (Eucalyptus, Melaleuca, etc.),
extracted by “Faulding’s Process.”

BY ROYAL LETTERS PATENT 14138/94.

Price 6/9 lb. net.

See “Pharmaceutical Journal,” Dec. 15, 1894; “Chemist and Druggist,” March 2 (page 311), 1895.

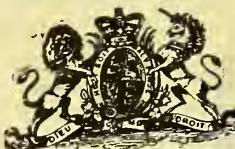
Prepared Solely by

F. H. FAULDING & CO.,
ADELAIDE,

Wholesale Manufacturing Chemists & Distillers of Eucalyptus Oils,

Eucalyptus Department—9 SOUTH STREET, LONDON, E.C.

EUCALYPTUS DISTILLERIES—PUNYELROO (River Murray), WISANCER (Kangaroo Island), SOUTH AUSTRALIA.



Manure
by Special Appointment



Manufacturers
to Her Majesty the Queen.

UNIFORM STRENGTH AND QUALITY GUARANTEED.

(NON-POISONOUS.)

FLUID & POWDER

(NON-POISONOUS.)

Disinfectants

UNEQUALLED FOR DOMESTIC USE.

Testimonials and Evidence of Value on application to the Secretary

ODAMS' MANURE & CHEMICAL CO., LIMITED,
116 FENCHURCH STREET, LONDON, E.C.

DAY. SON & HEWITT,
'LARGEST MAKERS IN THE WORLD OF
HORSE & CATTLE MEDICINES.'

THE CHEMICAL EXTRACT.

For Kicks, Cuts, Bruises, Sore Withers, Swellings, Strains of Ligaments and Tendons, Saddle Galls, &c. It rapidly relieves Straining and Paining after Calving and Lambing, and is the remedy for Swollen Udders and Sore Teats.

Price 2s. 6d., 3s. 6d., and 7s. per bot.



Prices complete, 18s. and 34s.

PILLS & LOTIONS FOR ALL DOG AILMENTS.

Price 1s. 6d. per bottle or box.

Descriptive Catalogue of each preparation
on application.



For all Feverish Disorders among Cattle, Sheep, and Pigs, and for Colds, Indigestion, Costiveness, Yellows, Surfeits, Loss of Cud, Hide-bound, Red Water, &c. Admirably adapted for cleansing and checking Feverish Symptoms in Cows and Ewes after Parturition, rendering the milk copious, pure, and wholesome. It acts as a safe preventive of Milk Fever.

Price (Cows), 13s. per dozen box ; (Ewes), 3s. 6d. per doz. 3 doz. box, 10s.

Liberal Discounts to Foreign Buyers.

*Trade Terms and Full Particulars on
application.*

*Attractive Showcards and Handbills
sent with each order.*

THE GASEOUS FLUID.

A sure remedy for the Fret, Colic or Gripes, Influenza, Loss of Appetite in Horses. For Debility, Scour, or Diarrhoea in Horses, Cattle, and Sheep. Hoven or Blown Cattle and Sheep instantaneously relieved.

Price 1s. 9d. per bot. 20s. per doz.



FOR HORSES, CATTLE, & SHEEP.
Prices :
£6 6s., £2 16s. 6d., & £1 8s. 9d.

ROYAL ANIMAL MEDICINE MANUFACTORY, 22 DORSET ST., LONDON, W.

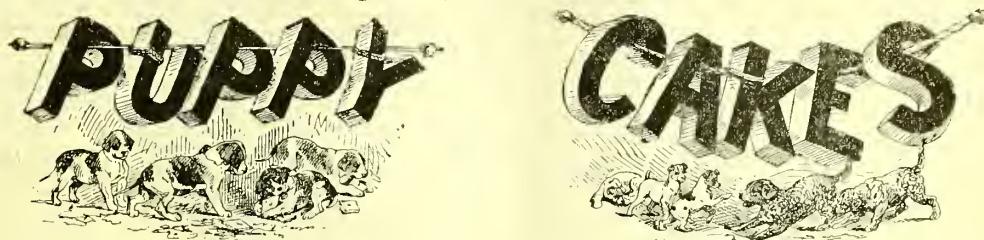
SPRATT'S PATENT



Contain Meat and other ingredients, forming a complete food for small breeds. Sold in 7-lb. and 14-lb. Tins or Boxes, or $\frac{1}{4}$ -cwt., $\frac{1}{2}$ -cwt., or cwt. Cases.



Do not contain Meat, and form a valuable alternate diet with the Pet Dog Cakes. Highly recommended by Mr. A. J. Sewell, M.R.C.V.S., and the Veterinary Profession. Sold in 7-lb. and 14-lb. Tins or Boxes, or $\frac{1}{4}$ -cwt., $\frac{1}{2}$ -cwt., or cwt. Cases.



Assist Dentition, and form a valuable diet for Puppies after weaning. Sold in 7-lb. or 14-lb. Tins or Boxes, or $\frac{1}{4}$ -cwt., $\frac{1}{2}$ -cwt., or cwt. Cases.

TRADE TERMS OF
SPRATT'S PATENT, LIMITED, BERMONDSEY, LONDON, S.E.
OR YOUR WHOLESALE HOUSE.



25-LB. TINS. 2 TINS IN CASE.

THE CHEMIST AND DRUGGIST says:—

“The oil is free from low-boiling terpenes, has a specific gravity of 0.9075, and has a delightful odour.”



KANGAROO EUCALYPTUS OIL

Is admitted to be the Purest Eucalyptus Oil yet introduced to the public.
To be obtained of your Wholesale Druggist.



SOLE CONSIGNEES—
LAUGHLAND, MACKAY & BAKER, 50 Lime St., LONDON.

COLONIAL ADDRESS—
A. M. BICKFORD & SONS. Wholesale Druggists
46 Currie Street. ADELAIDE.



THE SANITARY PENDANT

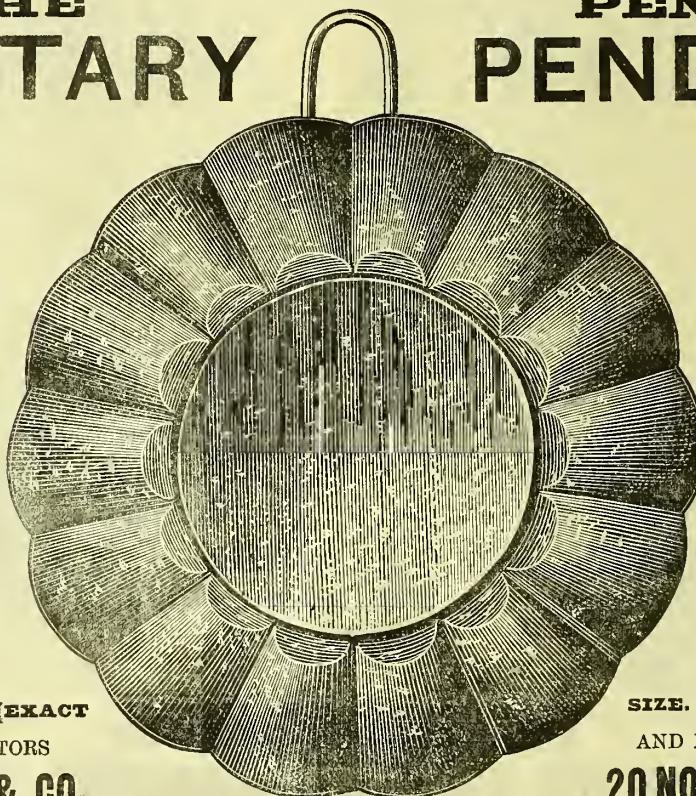
DISINFECTANT,
ANTISEPTIC,
AIR PURIFIER.

Trade Price,
6s.
per gross.

Through all
Wholesale Houses.

[EXACT
SOLE PROPRIETORS
J. BEEDZLER & CO.,
Manufacturing Chemists,
40

[ESTABLISHED 1700.]



DEODORISER,
VITALISER,
INSECT
DESTROYER.

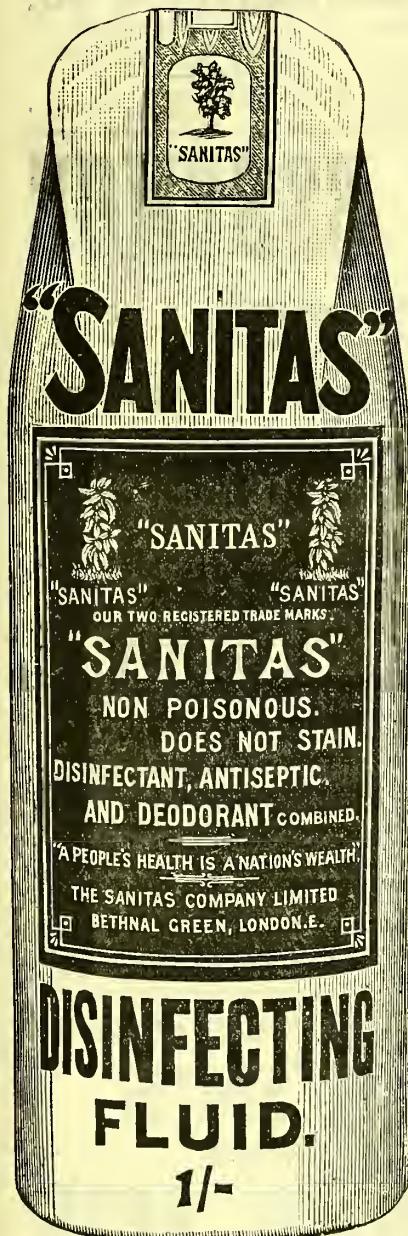
*A Safeguard against
Epidemics.
Keeps Flies from
Rooms and Moths
from Clothes.*

SIZE.
AND MANUFACTURERS—
20 NORTON FOLGATE,
LONDON, E.C.

TRADE

MARK.

"Sanitas"



THE
BEST REALLY NON-POISONOUS
Disinfectant.

"SANITAS"

FLUID, for Indoor Use.

CRUDE, for Rough Use.

OIL, for Fumigations and Inhalation.

SOLUBLE OIL, for Drain Testing.

POWDERS, for General Distribution.

SOAPs, for all Purposes.

DISINFECTORS, for Purifying the Air.

FUMIGATORS, for Disinfecting Rooms, &c.

SOLUBLE BLOCKS, for Water Carts.

TABLETS, for Urinals and Killing Moths.

INHALERS, for Lung and Throat Affections.

SULPHUR CANDLES (KINGZETT'S PATENT).

"SULPHUGATORS," for Disinfecting Small Spaces.

PEPPERMINT OIL, for Drain Testing.

PEROXIDE OF HYDROGEN.

L. G. B. CORROSIVE SUBLIMATE PELLETS.

EUCALYPTUS OILS.

"CREOCIDE" FLUIDS AND POWDERS.

CARBOLATED CREOSOTE.

CARBOLIC FLUIDS, POWDERS, SOAPS.

WEED DESTROYER.

SHEEP DIP.

&c., &c., &c.

Full particulars on application to

THE SANITAS COMPANY, LIMITED, BETHNAL GREEN, LONDON, E.

TELEPHONE NO. 1011.

Telegraphic Address—"SANITAS LONDON."

Harvey's Horse Remedies

HARVEY'S ACONITE POWDERS,
For Chronic Cough, Broken Wind, Roaring, &c.
HARVEY'S WORM AND CONDITION POWDERS.
HARVEY'S WATTS' EMBROCATION,
or Curb Bottle.
HARVEY'S WATTS' RED LOTION,
For Wounds.
HARVEY'S HAIR RESTORING OINTMENT.
HARVEY'S EDOS, or Tasteless Purging Powder.

These Remedies are used in most of the Training Stables, Stables of Masters of Hounds, and by many thousands of Private Horse Owners in the United Kingdom and abroad.

FULLY DESCRIBED IN
"THE HORSE OWNER'S
HANDY NOTE BOOK."
96 PAGES. POSTED FREE.

Illustrated Pamphlets, and also Neat Booklets with Chemist's name on, supplied on application.

For Trade Prices see the Lists of the Wholesale Houses, or write for Cash Price List to the Sole Proprietors,

HARVEY & CO.
6 Bachelor's Walk,
DUBLIN.

Telegraphic Address—
"REMEDIES DUBLIN."

WILEY'S CHEMICAL ESSENCE

FOR
LAMENESS IN HORSES.

HANDBILLS, WITH NAME & ADDRESS, SUPPLIED GRATIS.
50 YEARS' UNBROKEN SUCCESS.

SOLE MAKER AND PROPRIETOR, FRANCIS E. ROOKLEDGE, CHEMIST, EASINGWOLD, YORK.
TO BE HAD OF USUAL WHOLESALE HOUSES.

A VALUABLE AGENCY!!!

BIRD'S BOTANIC ESSENCE

(REGISTERED TRADE MARK).

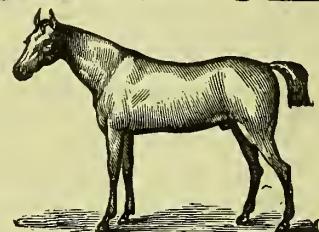
THE CERTAIN CURE

For Curb, Splints, Spavins, Strains in the Back Sinews, Windgalls, Capped Hocks, Sore Throats, &c., in Horses.

As used in the Stables of the Royal Families, Nobility, the leading Trainers, and largest Horse Owners throughout the World for over 60 years.

Obtains a large sale (and affords a handsome profit) wherever introduced. May be procured of all Wholesale Houses, or direct from Sole Proprietors—

BIRD & STOREY, 42 Castle Street East, Oxford Street, LONDON, W.



BUY THE BEST.

CARBOLIC DISINFECTANTS.

YELLOW PASTE DIP.

FLUID SHEEP DIP.

FLY POWDER.

YELLOW POWDER DIP.

WEED KILLER.

FOREIGN AGENTS WANTED.

English Buyers, see Page 53 in "Chemists' and Druggists' Diary," 1895.

FLETCHER BROS. & CO., GOVERNMENT CONTRACTORS,
GRIMSBY.

WHOLESALE & EXPORT orders for

MASON'S

PERFUMED SOLUTION OF

CARBOLIC ACID

Should be addressed to

C. E. MASON & CO., 107 Whitecross St., E.C.

TERMS UPON APPLICATION.

THE CELEBRATED

"ACME" WEED KILLER

Used in the Crystal Palace Grounds, Royal Horticultural Society's Gardens, and by Corporations and Burial Boards all over the Kingdom.

The most popular and effective Weed Killer in the market. Supplied by us as a Liquid in Tins, Drums, and Casks; or as a Powder in Canisters.

LIQUID WEED KILLER.

STRENGTH: One Gallon to be Mixed with 25 Gallons of water for use.

RETAIL PRICES—In 1 and 2 gallon Tins, 2/- per gallon (tins included); 5-gallon Drums, 1/6 per gallon; 8 gallons, 1/5 per gallon; 10, 15, 18, and 20 gallons, 1/4 per gallon; in 40-gallon Casks, 1/3 per gallon.

DOUBLE STRENGTH: One Gallon makes 51 Gallons for use.

RETAIL PRICES—1 and 2 gallon Tins, 3/- per gallon (tins included); 5 gallons, 2/6 per gallon; 8 gallons, 2/4 per gallon; 10, 15, 18, and 20 gallons, 2/3 per gallon; 40-gallon Casks, 2/- per gallon.

CARRIAGE PAID ON SIX 1-GALLONS IN TINS, AND 5 GALLONS IN DRUMS, AND UPWARDS.

POWDER WEED KILLER.

In Tins; one Tin sufficient for 25 gallons of water. Soluble in cold water
WRITE FOR PRICES.



LIBERAL TERMS TO CHEMISTS.

GENUINE COMPRESSED KENTISH HOPS

In 1-lb.

and

½-lb. Packets.



Also in Pockets

1½-ozwt.,

or smaller

Packages.

A saleable article, with full directions on packets, for making

HOME-BREWED ALE, NON-INTOXICATING HOP ALE, HOP BITTERS, HOP PILLOWS, &c., &c.
Terms and Prices on application.

QUASSIA AND LOGWOOD CHIPS.

Imported by us and cut by special machinery on our own premises. Guaranteed Chips cut from the Logs as imported.
Prices and Terms on application.

Illustrated Circulars of any of the above, with Name and Address of Agents printed at foot, supplied gratis.

MANUFACTURING CHEMISTS,

ACME CHEMICAL COMPANY, LIMITED

Tonbridge, Kent, and Carlton Street, Bolton, Lancs.

DUSSEK BROS. & CO.'S SOLUBLE SANITARY FLUID (MILKY), CARBOLIC ACIDS & POWDERS

Of all strengths, in various packages for the Trade and for Export.

Also Sheep Dip, Tar and Rosin Products, Dubbin, Greases, Creosote, Brunswick Black, &c.

DUSSEK'S WHARF, VERNEY ROAD, S.E.

TELEPHONE NO. 4833.

TELEGRAMS—"DUSSEK LONDON."

"THE MOST POWERFUL GERM DESTROYER AT PRESENT KNOWN TO SCIENCE."

Now supplied by the chief Wholesale Houses.

Show Cards, Pamphlets, Printed Matter, And any information the Trade may require, can be obtained or application to

Allen & Hanburys,
BETHNAL GREEN,
LONDON,

Who are the Sole Bottling Agents for the Manufacturers.

DISINFECTANT (Non-poisonous).



EDINBURGH, 1890.

BOTH HIGHEST AWARDS.



JAMAICA, 1891.

DISINFECTANTS.

"Pineotas" Powders, Fluids, and Soaps; Carbolic Powders, Fluids, and Soaps; Crude Carbolic Acid; 95/97% Pale Carbolic Acid; 97/99% Water-white Acid; Petroleum Jelly.

SHEEP DIPS, POWDER AND FLUID.

WANDSWORTH CHEMICAL WORKS, LTD.

WANDSWORTH, S.W.

AGENCY—116 PRINCESS STREET, MANCHESTER.

CAMPHORTAR

8/- per Gross

CAMPHORTAR

A combination of Camphor, Eucalyptus, and Coal Tar. A Powerful Disinfectant, Deodorizer, Insect Destroyer, and Air Purifier.

CAMPHORTAR

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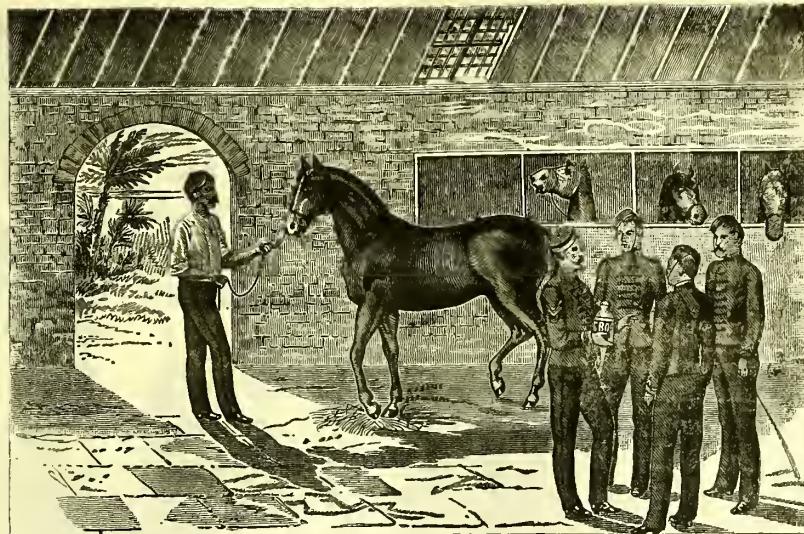
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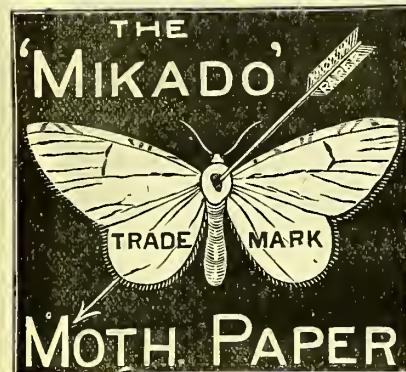
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SAMPLES FREE.



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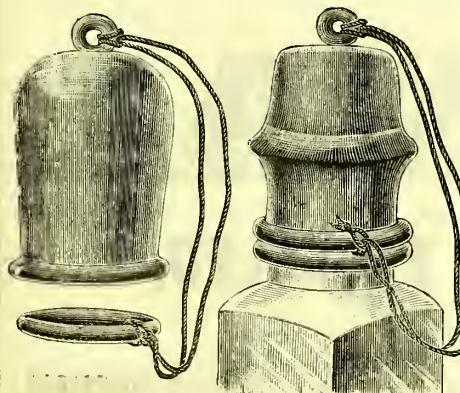
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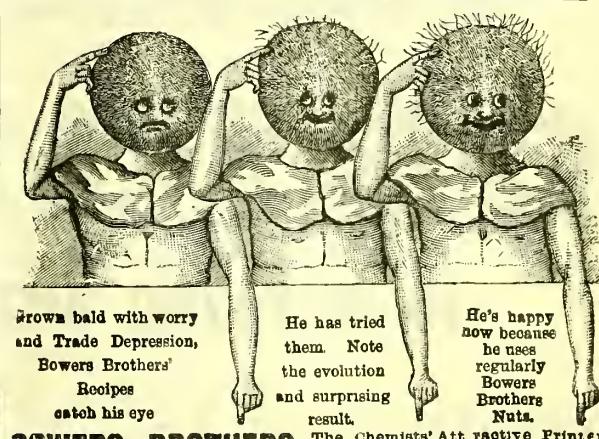
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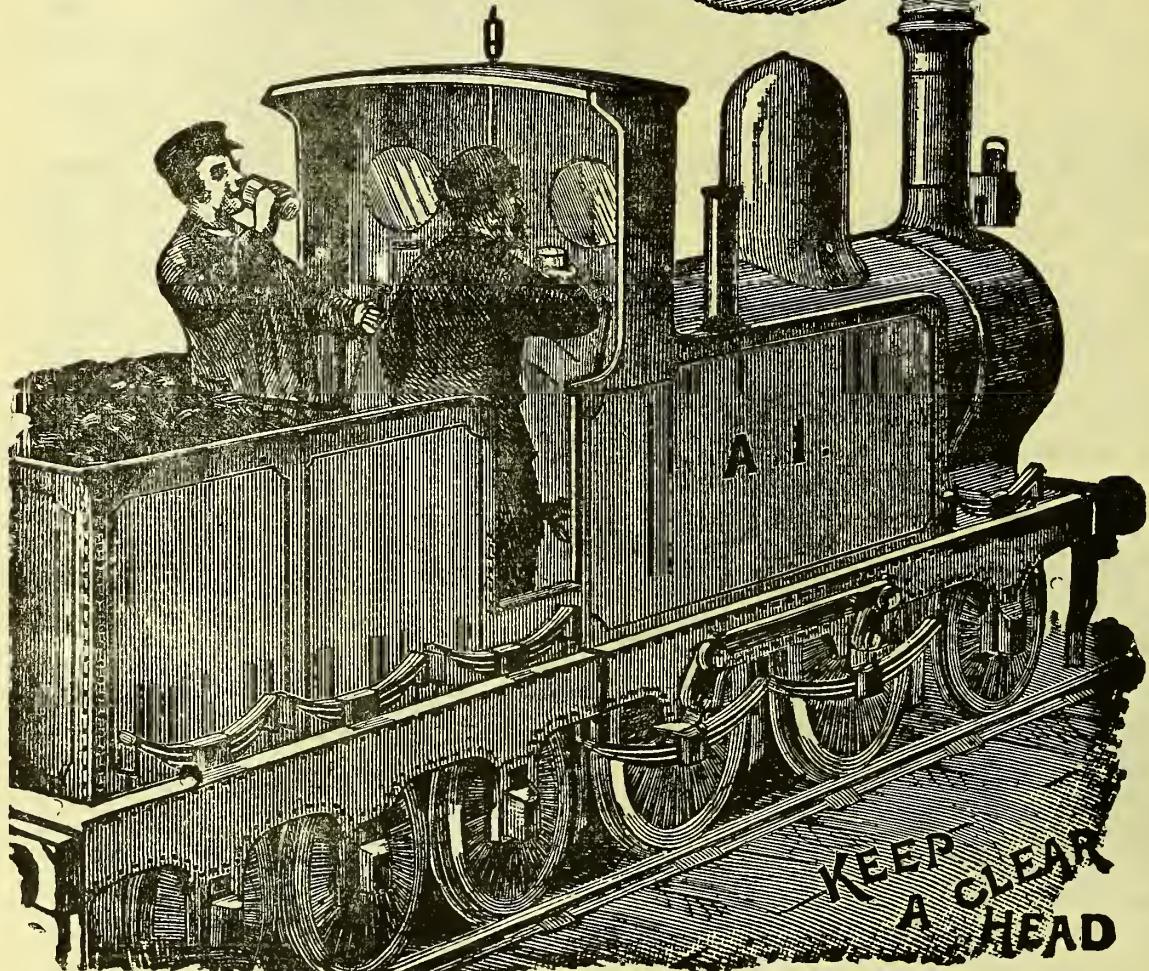
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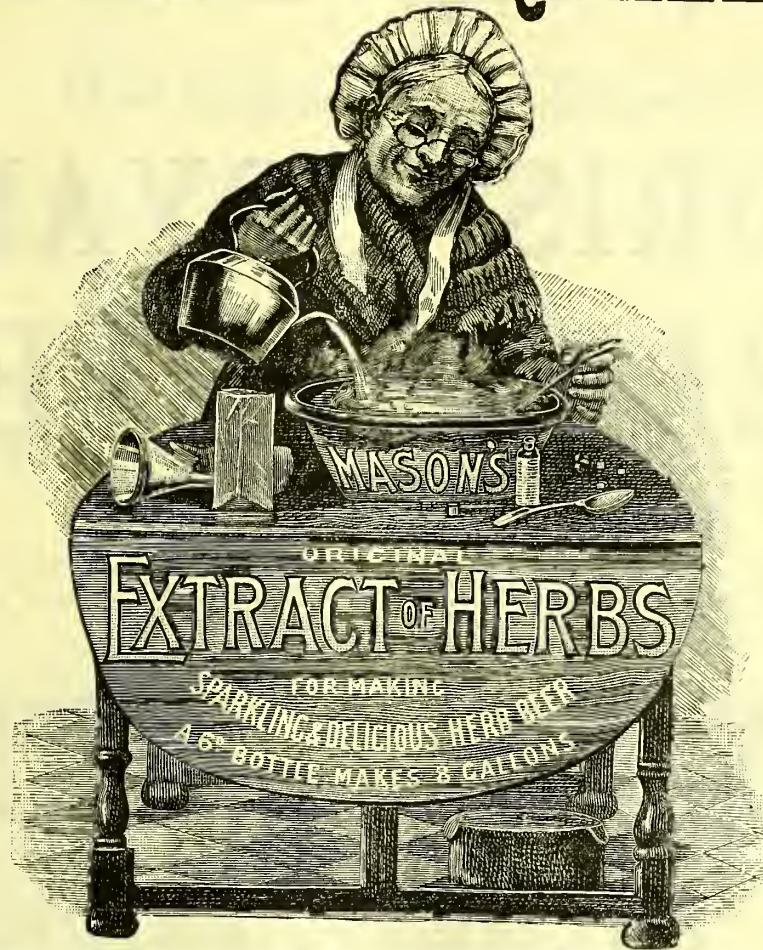
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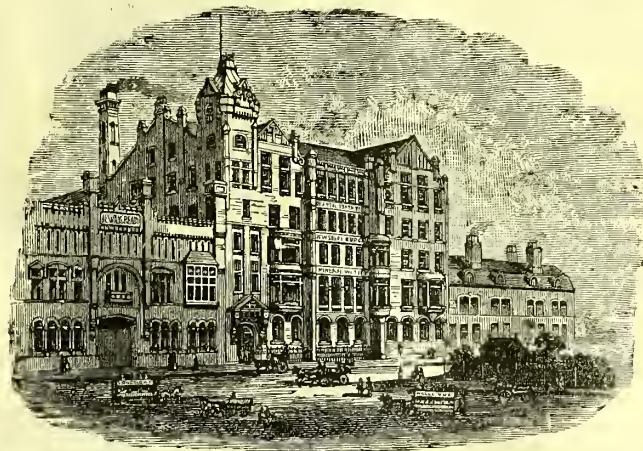
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BREWED GINGER BEER

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THESE WATERS are unrivalled for QUALITY and STYLE, being prepared for High-class Trade, yield a LIBERAL PROFIT to the RETAILER, and are the BEST VALUE in the trade to the CONSUMER.

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In these Machines if they wish to produce their own Aerated Waters.

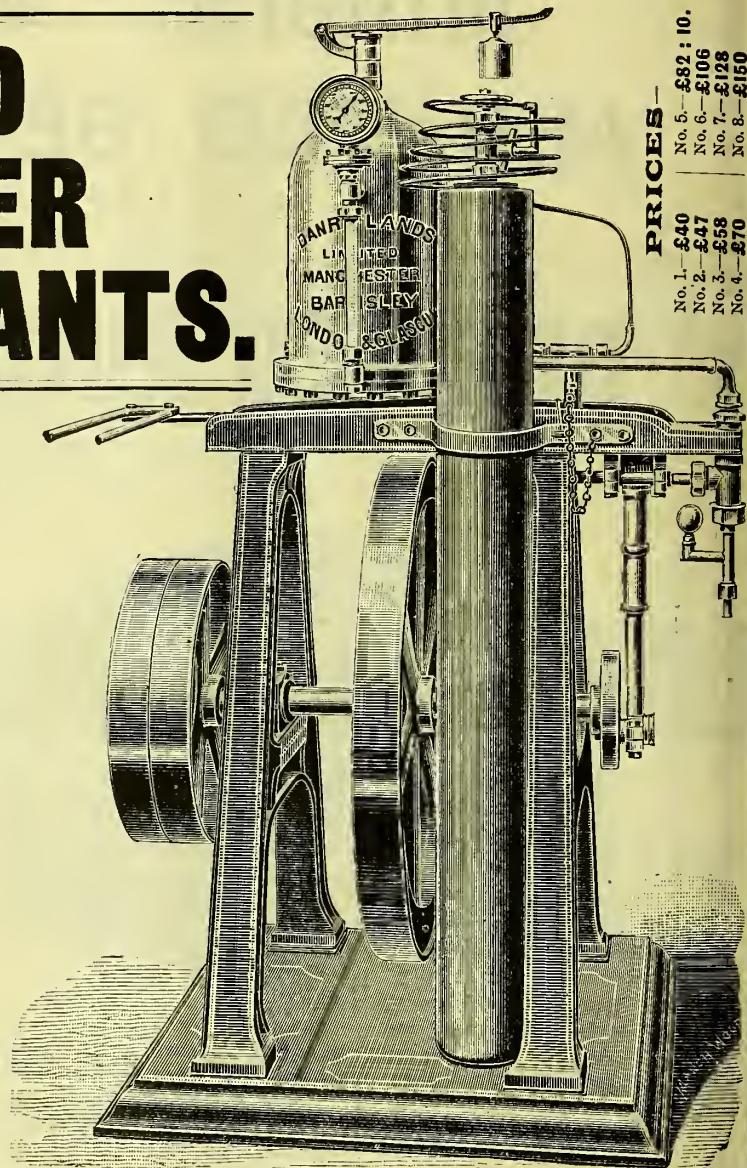
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Very Efficient in
Working.

All Sizes, for Hand
or Power.

Require only
HALF
the usual POWER.



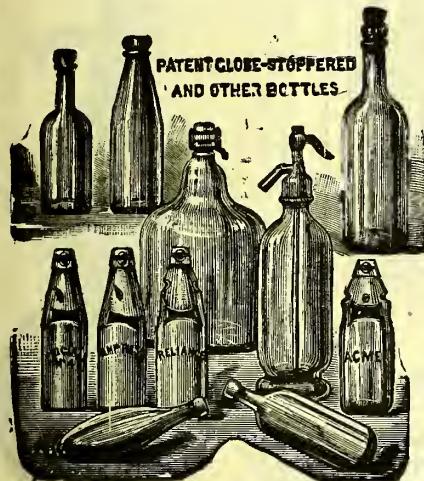
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We have had over TWENTY YEARS' experience in the making of Globe Stoppered Bottles, and have manufactured more than all other firms in the World put together. RYLANDS "Valve," "Reliance," "Acme," and "Original No. 4," are the leading Bottles in the Trade. All our Bottles are made with a patent tool of which we are the Sole Owners, and the grooves produced thereon will be found the most reliable in the market. All Buyers should see that the name of "DAN RYLANDS" and a figure 4 are stamped upon each bottle, in order to ensure our special manufacture and extra strength of glass. The names of our various shapes of Globe-stoppered Bottles are also registered, and should be used by buyers when placing their orders.

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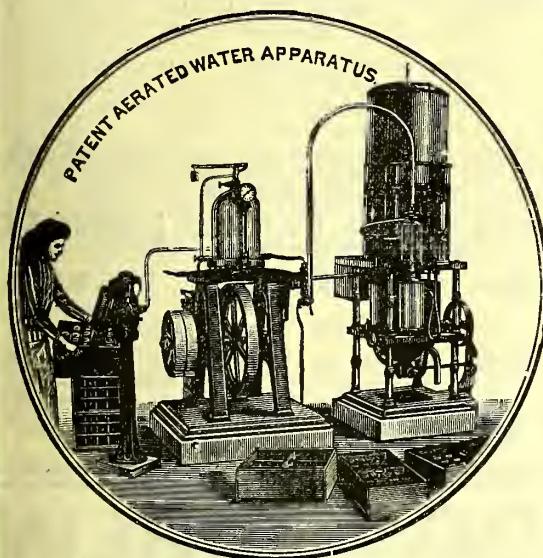


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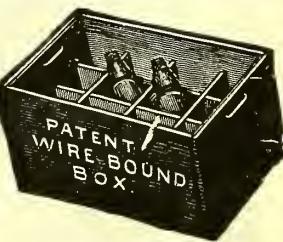
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NAME	Per Dozen		Original Packages		NAME	Per Dozen		Original Packages	
	Botts.	½ Botts.	Bottles	½ Bottles		Botts.	½ Botts.	Bottles	½ Bottles
ÆSCULAP	15/-	12/-	25	30/-	50	50/-	Levico	15/-	—
Apollinaris	6/-	5/-	50	25/-	100	50/-	Pullna	12/-	8/-
Barium	9/-	5,6	50	36/-	100	43/-	Reginaria	5/6	4/6
Hourbourne (La)	11/-	—	50	42/-	—	—	Roisdorf	6/-	—
Carlsbad	12/-	—	50	46/-	—	—	Rosbach	6/-	5/-
CONDAL	—	14/-	—	—	50	56/-	Royer	9/-	—
Contrexeville	9/-	—	50	35/-	—	—	Rubinat	15/-	8/-
Flitwick	24/-	15/-	—	—	—	—	St. Galmier	6/-	4/6
Franz-Josef	15/-	12/-	25	30/-	50	42/-	St. Marco	11/-	8/6
Friedrichshall	15/-	10/-	25	25/-	50	40/-	Salutaris (including bottles)	4/-	2/6
Geroistein	5/-	4/-	50	20/-	50	15/-	Selters	6/-	4/6
Hunyadi-Janos	11,6	9/-	25	21/-	50	34/-	Vals	8/6	—
Johannis	6/-	4/6	50	38/-	22/-	100	VICHY (State Springs)	8/6	6/6
Kronenquelle	10/-	—	50	38/-	—	—	"Celestins," "Hôpital,"	50	33/-
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Ask for Samples and state quantity to quote for.

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Sugar Free.

Carefully Standardised.

Prepared by Actual
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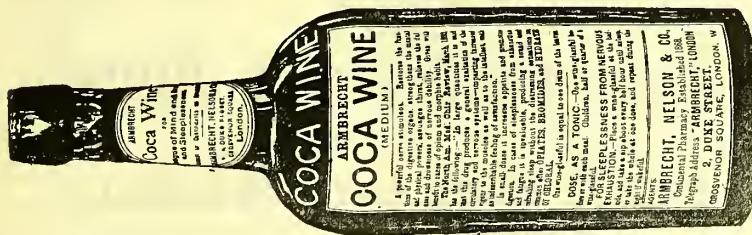
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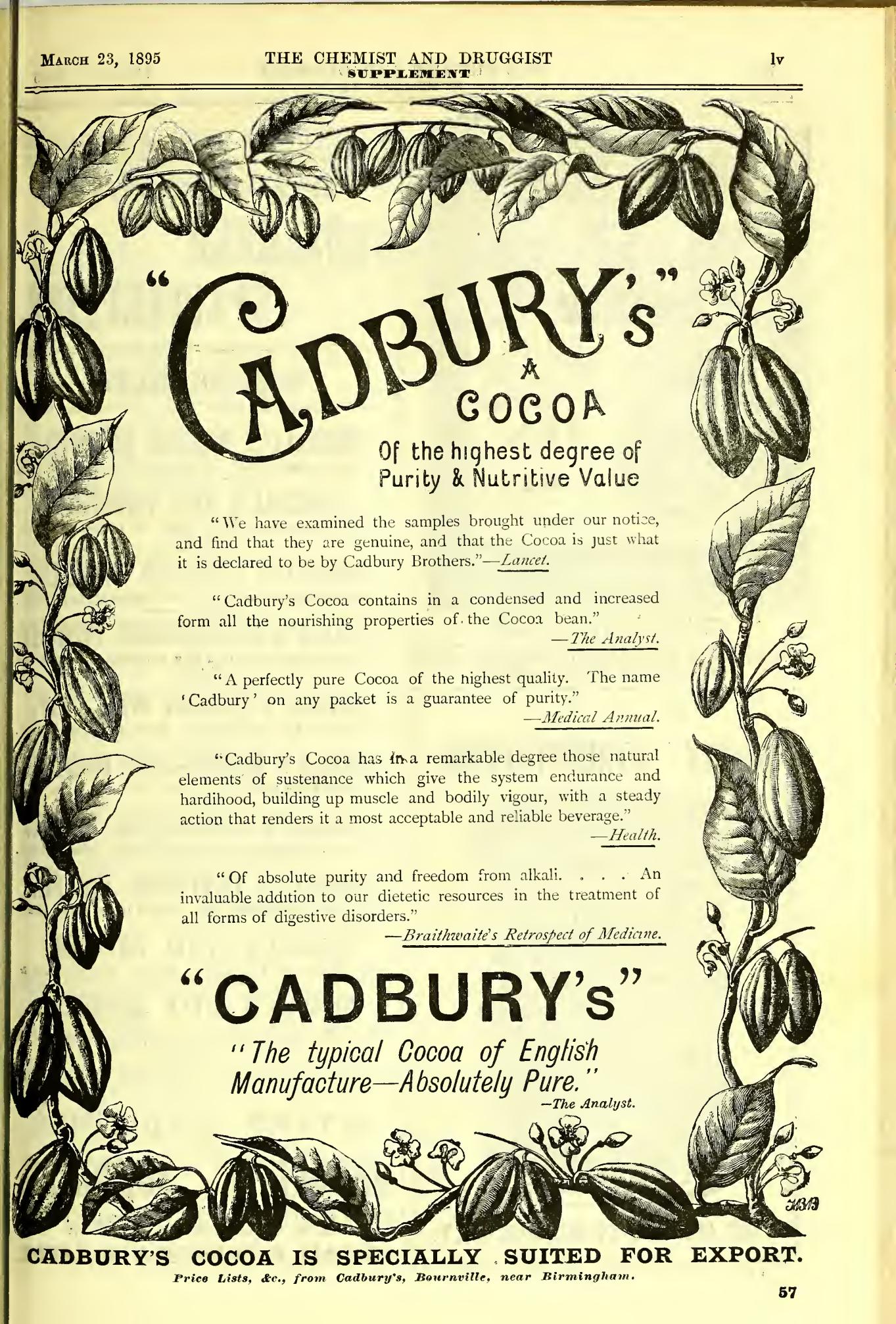
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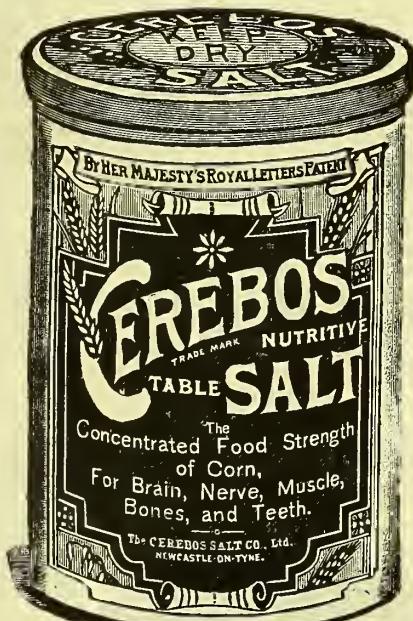


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PRINCE ALBERT'S CACHOUX

HIGHEST AWARD
CHICAGO EXHIBITION

1893.



These Cachoux are supplied only in Brass Boxes, of which there are three sizes.

No. 4's at 3/6 doz. (Export).
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THOMAS JACKSON, Strangeways, MANCHESTER.

Peter Tyrer's SAUCES.

WORCESTER, READING, HARVIE, YORKSHIRE.

| | | | | | Per Gross. | Extra Quality |
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| 1d. Sample Bottles, dozen parcels | ... | ... | ... | ... | 5/3 | 6/6 |
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| $\frac{1}{2}$ Bottles, flat or round, reputed $\frac{1}{2}$ pints | ... | ... | ... | ... | 16/- | 26/- |
| $\frac{1}{2}$ " " " " pints | ... | ... | ... | ... | 26/- | 38/- |
| 1 Pint Imperial, round stoppered bottles | ... | ... | ... | ... | 52/- | 62/- |
| 12½-Gallon Casks (casks free) | ... | ... | ... | ...each | 20/- | 32/- |

ROYAL CAFE SAUCE, A RICH FRUITY & EXQUISITE FLAVOUR.

Square Glass Stoppered Bottles, containing nearly $\frac{1}{2}$ pint Imperial, 42/- per gross. Sample Bottles at 7/- per gross.
8 oz. in doz. 3/9 per doz.

“BOROUGH” KETCHUP. SILVER MEDAL.

Cash Price—20s. for 12½ Gallons.
CASKS FREE.

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January, 1883.

MR. PETER TYRER.

SIR,—I have been using the “Borough” Ketchup, and am very pleased with it. Its flavour is excellent, both for all kinds of Savoury dishes and Soups; and I most certainly should advise every cook and housekeeper to use it, FOR I HAVE NEVER YET MET ITS EQUAL.

MARIAN SMITHARD,
Lectress on Cookery.



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CHIEF SCOTCH AGENCY—West Nile Street, GLASGOW.

BY ROYAL LETTERS PATENT.

THE MAWSON FILTER.

Perfected by the aid of exact analysis, tested by experts and Medical Officers of Health, and adopted after rigid trial by the highest authorities in Sanitation in the world.



| | | | |
|----------|----|-----|-----|
| Plain | .. | 2.9 | 4.6 |
| Engraved | .. | 6/6 | |

RETAIL SELLING PRICES


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| No. 1 | 2 | 3 | 4 | 6 |
| 14/6 | 21/- | 27/- | 35/- | 50/- each. |

RETAIL SELLING PRICES


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|-------|------|------|------|-------------|
| No. 1 | 2 | 3 | 4 | 6 |
| 35/- | 45/- | 65/- | 85/- | 105/- each. |

RETAIL SELLING PRICES


| | | |
|----------|----|-----|
| Plain | .. | 5.6 |
| Engraved | .. | 7/6 |

RETAIL SELLING PRICES
THE NEW PATENT MAIN SERVICE FILTER.

By gravitation. No high pressure required.

Vide Professor TICHBORNE'S Special Report on these Filters.

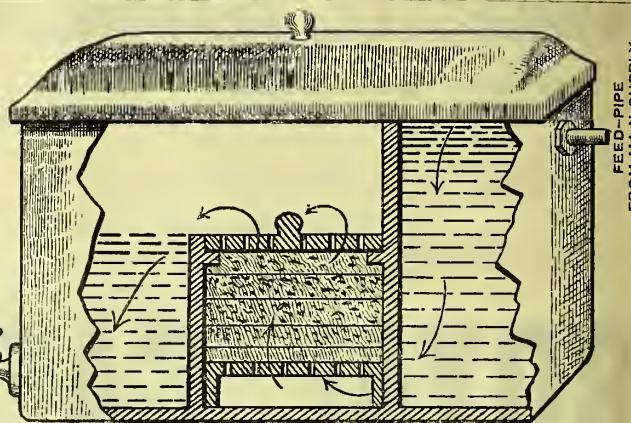
Adapted for Dwelling-houses, Hotels, Schools, Hospitals, Soda-water Factories, &c., giving a continuous supply of pure water without attention. Various sizes can be seen in operation at the works.

NOTE THE ADDRESS—

THE MAWSON FILTER CO.

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NEWCASTLE-ON-TYNE.

**THE PASTEUR GERM FILTER.**

The PASTEUR FILTER prevents the passage of Microbes of any kind, is difficult to break and easy to clean, and is effectual in preventing Epidemics of Cholera, Typhoid Fever, Diarrhoea, and similar diseases.

The British Medical Journal (August 25, 1894) says:—"Its application for some years in 200,000 quarters of the French Army has shown that it is effectual in preventing epidemics of Cholera, Typhoid Fever, Diarrhoea, and similar diseases."

M. de Freycinet (Report of Minister of War to President of the French Republic, *Journal Officiel*, February 14, 1892) says:—"Wherever the Pasteur Filter has been applied to water previously bad, Typhoid Fever has disappeared." At this date over 200,000 quarters of the French Army were fitted with Pasteur Filters.

Made in a variety of Patterns for Industrial and Domestic purposes.

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After eight months' investigation in the Public Health Laboratory of the University of Edinburgh to estimate the value, in prevention of disease, of the best known Carbon and Asbestos Filters, of the Pasteur Filter, and of a copy of it in another material, Dr. H. H. Johnston, D.Sc., M.D., C.M., states:—"The Pasteur-Chamberland Filter is undoubtedly the best, and the only one in which reliance can be placed for permanently sterilising drinking water."

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SANITARY DEPARTMENT, LONDON, E.C.**CHAMPION'S****VINEGAR**COMMANDS A PREFERENCE OVER
ALL OTHERS.

WORKS { Corner of Old Street and City Road, LONDON.

ESTABLISHED OVER 200 YEARS.

NEEDS NO GUARANTEE.

THE FULHAM POTTERY & CHEAVIN FILTER CO., LTD. FULHAM, LONDON.

SOLE MANUFACTURERS OF

GEORGE CHEAVIN'S NEW PATENT IDIOCATHARTES REMOVABLE PLATE WATER FILTERS.



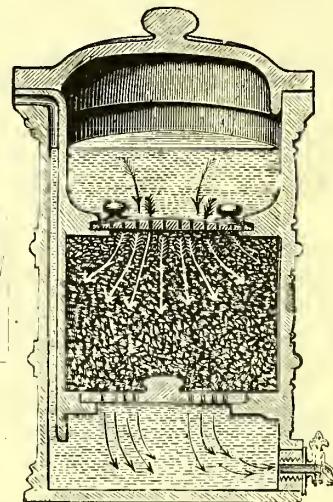
PRICE LIST, DISCOUNT UPON APPLICATION.

| Nos. | A | B | C | D | E | F | G | H | I | J | K |
|------------|------|-----|------|-----|------|------|-----|-----|------|------|------|
| Price | 11/6 | 15/ | 18/6 | 26/ | 36/6 | 43/6 | 52/ | 72/ | 93/6 | 123/ | 143/ |
| Gallons .. | ½ | 1½ | 2½ | 3½ | 5 | 6 | 7 | 12 | 19 | 27 | 36 |
| Recharges | 2/ | 3/ | 3/6 | 4/6 | 5/6 | 6/6 | 7/6 | 8/6 | 14/ | 20/ | 22/ |

Manufactured in Cream-coloured hard Stoneware and fitted with Silver-plated Tap and Indiarubber Washer, complete.

Stoneware Taps supplied instead of Metal ones if desired.

ALL SIZES CAN BE WICKER-CASED AT A SMALL COST.



Dr. A. B. GRIFFITHS, F.R.S. (Edin.), F.C.S.,

Member of the Chemical Societies of Paris and St. Petersburg; Lecturer on Chemistry, Central School of Chemistry and Pharmacy; Analytical Chemist and Assayer; Consulting Chemist to National Amateur Gardeners' Association;

Author of "A Manual of Bacteriology," "Researches on Micro-Organisms," "The Physiology of the Invertebrata," "A Treatise on Manures," "The Diseases of Crops," "Manures and their Uses," "Special Manures for Garden Crops," "A Manual of Assaying," &c.

Bacteriological and Agricultural Expert. Agricultural Analyst for the County Soke of Peterborough.

[COPY.]

12 KNOWLE ROAD, BRIXTON, S.W.,
December 15th, 1894.

I have passed through the Cheavin Filter distilled water, containing pure cultivations of the Microbes of Asiatic Cholera, Typhoid Fever, and Diphtheria, and the filtered water was then tested by inoculating with it a large number of cultivation tubes, containing the most suitable media for the growth of the three microbes, and also Koch's, or the plate-cultivation process, was used; but in no instance did microbian growths make their appearance.

It may be stated that the inoculated water, before filtration, gave rise in cultivation tubes to typical growths of the Microbes of Asiatic Cholera, Typhoid Fever, and Diphtheria.

The Lambeth Company's Water (the Brixton Water Supply) yielded, before filtration, 448 Colonies of Microbes per cubic centimetre, whereas after filtration through the **CHEAVIN FILTER** it was sterile, or entirely free from microbes. There is no question that this filter removes disease-producing and other microbes from water, and it renders the water bright, clear, and palatable.

I have no hesitation in saying that the **CHEAVIN FILTER** is an excellent one; in fact, it is second to none in the market.

A. B. GRIFFITHS.

Our New Patent Idiocathartes Removable Plate Filters are constructed on the most scientific principles, and are yet so exceedingly simple that they cannot get out of order, differing in their construction and arrangements from all other Filters. They are easy to manage, and under perfect control, whilst their deodorising and purifying powers are much greater than those of any other Filter. They can be thoroughly cleansed and taken to pieces (leaving the whole of the interior open for inspection), and re-charged with new Idiocathartes in a few minutes by the user.

NO LOOSE PAN OR INNER VESSEL TO CAUSE BREAKAGE.

FILTERS for the Dining-room, the Hall or Conservatory, the Kitchen, and Scullery, and the Bedroom; for Travellers and Emigrants, Ships' Cabins, Yachts and Steamers; for Brewers, Distillers, Soda-water Manufacturers, Hospitals, Public Institutions, Schools, Mansions, and wherever large quantities of pure water are required.

Contractors to Her Majesty's Government and others.

Write for New and Revised Catalogue, now ready.

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SPECIAL AGENTS, WITH EVERY SIZE ALWAYS IN STOCK,

W. B. FORDHAM & SONS, LIMITED, 36 to 40 YORK ROAD, LONDON, N.

MANUFACTURERS' DISCOUNTS GUARANTEED.

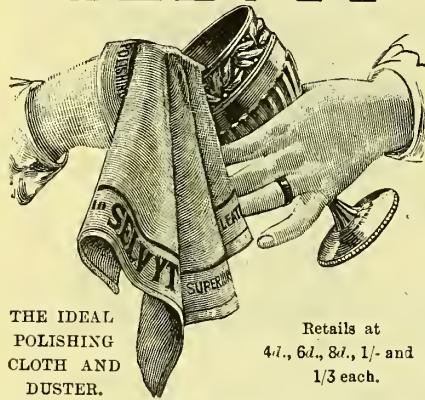
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Collect the Fur in Kettles, Kitchen Boilers and Pipes.

| No. | Size | Ins. | Each |
|-----|-----------------|------|------|
| 0 | Small Kettle | 4 | 1/- |
| 1 | Ordinary Kettle | 4½ | 1/8 |
| 1½ | Small Boiler | 5½ | 2/4 |
| 2 | Ordinary Boiler | 6½ | 3/4 |
| 3 | Medium Boiler | 8 | 5/- |

Purifies and softens the water. Prevents Boiler Leakage and Explosion.

Merely place in kettle or boiler, and do not touch for 9 or 12 months, when the "Octopus" will be heavily coated with the "Fur" it has collected, and if returned in a clean and unbroken condition when ordering a new one, an allowance will be made for it, as a specimen for exhibition purposes.

"SELVYT"THE IDEAL
POLISHING
CLOTH AND
DUSTER.Retails at
4/-, 6/-, 8/-, 1/- and
1/3 each.Size in Inches 10½ x 10½ 14 x 14 17½ x 14 21 x 17½ 21 x 20
Net price per
doz. ... 2/9 3/11 5/3 7/11 9/6**GRENFELL'S****PATENT SPOONHOLDER.**

For the Prevention of Sticky Fingers.

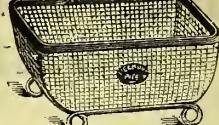
Nickel-plated ... Per doz. 3/-
Silver 6/-
Retail 6d. and 9d. each.**NEWTH'S BRITISH
FURNITURE POLISH.**

First Class Award Adelaide; First Class Award Melbourne; Gold Medal, New Zealand Exhibition; Silver Medal, and First Class Certificate, Calcutta Exhibition.

ASK for Newth's. It has
no equal. Invaluable for
Spring Cleaning.Retailed 3d., 6d., and 1s. per bottle.
1s., 3s., and 6s. per dozen.

THE CHEMIST AND DRUGGIST

SUPPLEMENT

**TRIANGULAR SHAPE.**

| | Enamelled
(White)
on Iron. | Tinned
on Iron. |
|-----------------|----------------------------------|--------------------|
| No. 1.—9 inches | 1/- | 1/1 |
| " 2.—10½ " | 1/4 | 1/5 |
| " 3.—12 " | 1/8 | 1/9 |

OBLONG SHAPE.

| No. 1.—10 inches | 1/- | 1/1 |
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| " 2.—12 " | 1/4 | 1/6 |
| " 3.—13½ " | 1/8 | 1/9 |

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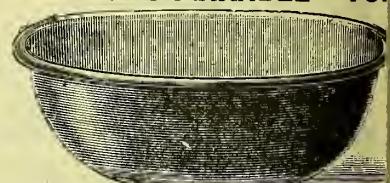
| | Enamelled
(White)
on Iron. | Tin
on Iron. |
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| No. 3.—12 inches | 1/4 | ... |
| " 4.—14 " | 1/8 | ... |

CIRCULAR SHAPE.

| No. 1.—9 inches | 1/- |
|-----------------|-----|
| " 2.—10½ " | 1/4 |
| " 3.—12 " | 1/8 |

BROOKE'S SOAP.

For Spring Cleaning.

OVAL "UNBREAKABLE" TINLength. 16 inches. Width. 13 inches. Depth. 6 inches.
No house or nursery complete without or
Per dozen 21/-**"IDIOCATHARTES"**Cheavin's Filter affords a certain protection against the dangers that lurk in the domestic water supply. Guaranteed to remove all germs of Cholera, Typhoid, Diphtheria, and all causes of Blood Poisoning, &c.
Special List upon application.**LEMON SQUEEZERS.**Neatly packed in sub-divided Boxes of 1 doz. Do not be deceived; every Genuine Squeezer bears EASLEY'S name and date of patent.
NO OTHER MAKE WILL COMPARE WITH THESE.
1/9 per doz., 20/- per gross.(Of which we are Manufacturers
and Sole Proprietors.)Filled with good
Glue. No House, Office, or Shop
should be without it.
SAVES 50 TIMES ITS COST.
"Handy to have in the house." It will mend Furniture
Picture Frames, Ivory, Fancy Articles, Bookbinding
every other thing that wants sticking together.
Retail 6d. Per doz. 33.**W. B. FORDHAM & SONS, LTD.**

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LONDON,

Telephone Number, 1852.

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ACIDS
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Hoffman & Sons (Pharm.)

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Zimmermann, A. & M.

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Gilliland & Co.

Hearon, Squire & Francis

Hill, A. S., & Son

Hovenden & Sons

Howard, J. & Co.

Kay Bros., Lim.

Maw, S., Son & Thompson

May, Roberts & Co.

Parmer & Co., Lim.

Quigley, H. C.

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Wright, Layman & Umney

Wood, Vincent

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Stevenson, H. E., & Co.

Warrington & Wright

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Hooper, J. & Co.

Lloyd, T. Howard, & Co.

Moss & Co.

Parke, Davis & Co.

Potter & Clarke

Reed, J. & Sons

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Wright, Layman & Umney

Wood, Vincent

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Bleasdale & Co., Lim.

Burgoyne, Buridges & Co.

Evans, Sons & Co.

Fletcher, Fletcher & Co.

Hearon, Squire & Francis

Hooper, J. & Co.

Lloyd, T. Howard, & Co.

May & Baker, Lim.

Richardson, B. & Sons

Richardson, J. & Co., Lim.

Wright, Layman & Umney

Wood, Vincent

DRUGGISTS' SUN.

Ayrton & Saunders

Barclay & Sons, Lim.

Bleasdale & Co., Lim.

Burgoyne, Buridges & Co.

Evans, Sons & Co.

Fletcher, Fletcher & Co.

Hearon, Squire & Francis

Hooper, J. & Co.

Lloyd, T. Howard, & Co.

May & Baker, Lim.

Richardson, B. & Sons

Richardson, J. & Co., Lim.

Wright, Layman & Umney

Wood, Vincent

DRUGGISTS' SUN.

Ayrton & Saunders

Barclay & Sons, Lim.

Bleasdale & Co., Lim.

Burgoyne, Buridges & Co.

Evans, Sons & Co.

Fletcher, Fletcher & Co.

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Holloway (Pills and Oint.)

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Newberry, F., & Sons

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Santo & Son, Lim.

Tidman & Son | Treatt, H. C.

Truelitt, H. P., Lim.

Van Open & Co.

Warrick Bros.

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Wright, Layman & Umney

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Oppenheimer, Son, Lim.

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Stearns, F., & Co.

Stevenson, H. E., & Co.

Warner & Co. (Ingluvin)

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Robbins & Co.

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Hill, T., & Co., Lim.

Harrison & Co., Lim. ("Luciline")

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Antitoxine | Armour & Co.

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Blyton, Astley & Co.

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Hill, A. S., & Son

Hewlett & Son

Howell, & Co.

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Mackey, Mackey & Co.

May & Baker, Lim.

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Oppenheimer, Son & Co., Lim.

Parker, Davis & Co.

Pitter & Clark

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Beecham, Thomas

Blyton, Astley & Co.

Cox, Arthur H., & Co. (tasteless)

Duncan, Flockhart & Co.

Evans, Sons & Co.

Hearon, Squire & Francis

Hill, A. S., & Son

Hewlett & Son

Howell, & Co.

Macfarlan, J. F., & Co.

Mackey, Mackey & Co.

May & Baker, Lim.

Moss, J., & Co.

Oppenheimer, Son & Co., Lim.

Parker, Davis & Co.

Pitter & Clark

Richardson, John, & Co. (Lef-
therette Co. (Lester), Lim.

Smith, T. H., & Co.

Squire & Sons

Stevenson, H. E., & Co.

Sutton, W., & Co.

Tyler, J. W.

Warrick Bros.

Woolley, Sons & Co.

Wyeth, Jno., & Bro.

Zimmermann, A. & M.

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Leslies, Lim | Mather, W., Lim

Seabury & Johnson

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Molling & Co., Silverlock, H.

Taylor Bros. | Townsend

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POMADE & SCREW CAPS,

CAPSULES, &c., &c.

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Patent No. 12711.

THE UNIQUE BOX.

Samples and Prices on application.

THE UNIQUE BOX.

THE UNIQUE BOX.</

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Bayer, W., & Son (Wine)

Howard & Sons

Smith, S., & Co (Wine)

Zimmermann, A. & M.

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Duncan, Flockhart & Co.

Tomlinson & Hayward

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SACCHARIN

Greco, R., & Co.

SACHETS

Warwick Bros.

SALICIN

Macfarlan & Co.

Smith, T. H., & Co.

SALICYLIC ACID

Birnbaum, B., & Son, Lim.

Zimmermann, A. & M.

SALTS

Hebbel, K.

SARSAPARILLA

Wilkinson's

SAUCES, PICKLES

Goodall, Backhouse & Co.

Tyrr, P.

SCHOOLS, &c.

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Central School of Chemistry and

Pharmacy, Lim.

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Medical School

Manchester Col. of Pharmacy

Metropolitan Col. of Pharmacy

Newcastle School

Northern College of Pharmacy

North of England School

Sheffield College of Pharmacy

South London School of

Pharmacy, Lim.

Strand Coll.

The School of Pharmacy

Westminster College

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SEA SICKNESS REMEDY

Yanatas, Lim.

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Hockin, Wilson & Co.

Hora & Co | May, Roberts & Co.

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Evans, Sons & Co. Ring Co.

Geraut, E., & Co.

Hockin, Wilson & Co.

May, Roberts & Co.

SHAVING

Hovenden & Sons (Euxesis)

Lloyd, Mrs. A. S. (Euxesis)

Trneffit, H. P., Lim.

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Fletcher, Bros. & Co.

Joyes' Sanitary Compounds Co.

Ness & Co.

Odams' Chemical Co., Lim.

Tomlinson & Hayward, Lim.

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Bowling & Goyer

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STOVES

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This Section of "The Chemist and Druggist" must be closed for press by Tuesday morning's post of each week. Remittances payable to EDWARD HALSE.

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Advertisements in this department must be paid for in advance. From this rule no deviation can be made. Insertions are charged at the rate of £4. per word, provided the advertiser attaches his name and address, for each word of which he must also pay at the same rate; or if he pays 1d. per word his name and address will be registered and a figure attached to his advertisement. All correspondence referring to that figure must be addressed to "The Publisher of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.," and the figure must be distinctly endorsed upon the envelope. Letters will then be forwarded to their proper destination. A price is counted as one word—as, e.g., £1 10s. 6d.

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Twenty-four ounces W.F. shop-counds, wide and N.N., 9s. doz., delivered; 16 oz. ditto N.N., cut globe stoppers, 13 for 12s., delivered; white F.G. upright show-jar, with japaanned tin cover, 19/- by 11 inch, offers; mahogany perfume stand for 12 2-oz. cut bottles, Rimmel's, 5s.; pear show-globe, cut stopper, 4½ galls., fig. 22, York Glass Co.'s list, 10s., delivered; Mackenzie inhaler, Maw, half-price. Smith, Market Place, Stroud.

Literature.

Chemist and Druggist, 1893 and 1894, and December 1892; *Pharmaceutical Journal*, 1894 and December, 1893; 6s. the lot. Preston, Morning Side, Lancaster.

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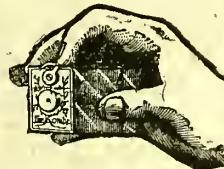
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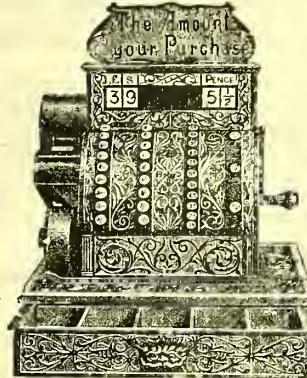
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DEAR SIR,—Allow me to thank you most sincerely for the very careful and thorough manner in which you and your staff directed my studies for the last “Minor.” I must say that when I commenced work I did not anticipate, with any degree of confidence, being ready by the time, and can only ascribe my success to the lucid and interesting manner in which the subjects are taught at the City School. In practical work especially the supervision is most painstaking, and no student who goes to you need be (if he determines to work) afraid of being neglected or overlooked. Wishing you every success,
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I remain, yours sincerely, A. E. WALKER.

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Davies, R. F., “Major.”
Sage, C. E.
Jones, Thos.
Price, C. H.
Wells, W. L.
Wicks, H. G.
Smith, R. T.
Roberts, W.
Roberts, W. J.
Clemiston, J. W.
Davidson, A. E.
Dealve, A. E.

Gee, E. M.
Hodder, H. G.
Short, W. J.
Newman, E. H.
Gibson, H.
Andrews, D. F.
Beales, W. W.
Carter, J. H.
Davies, D.
Davies, H. P.
Davies, H. P., “Major.”
Davis, T. M.
Ingram, Fred.
Rees, W. E.

Walker, A. E.
Greig, J.
Potter, T. B.
Atthey, G. H.
Bloor, F. A.
Evans, D. E.
Evans, E. C.
Daniels, J. W.
Hick, W. H. H.
Lawson, A. C.
Lee, J. C.
Jackson, T.
Richards, Emrys
Smedley, W. G.

Turner, J. A.
Maskew, W.
Ware, A. H.
Thompson, J.
Strother, A. E.
Cleghorn, J.
Dawney, C. B.
Benjamin, J.
Williams, D. I.
Morrey, George
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Neathercoat, H. W.
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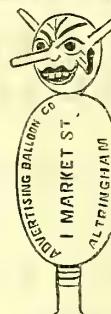
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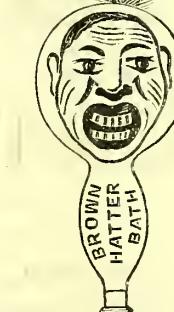
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Quite Transparent.*

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By a process recently discovered, are producing the most charming

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Ever offered to the Trade.

Put up and sent out in 4 lb. Glass Jars or Decorated Tins, as desired by Customers, and both Free.

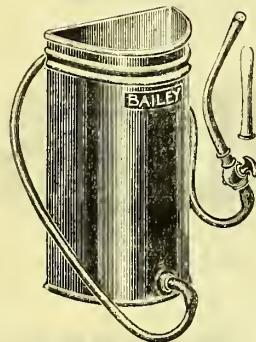


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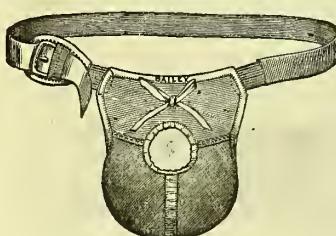


FIG. 1.

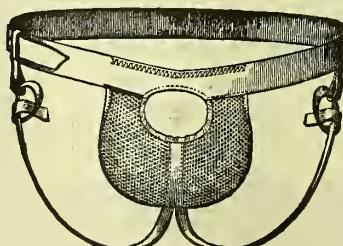


FIG. 2.

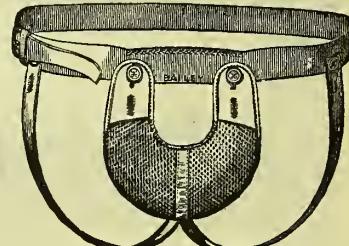


FIG. 3.

Cabinet of 2 dozen assorted, 30/- USUAL DISCOUNT.

TESTIMONIAL.

The Foregate, WORCESTER.

GENTLEMEN,—Please repeat our last order for "Suspensory Bandages." We think your idea of arranging the sizes and qualities by the use of numbers and letters a very excellent one, as it is most convenient to the Chemist in ordering, and we find our customers make use of your method. It brings us many repeat orders.

Yours faithfully,

ANDERSON & VIRGO.

W. H. BAILEY & SON, 38 OXFORD STREET, LONDON, W.

TELEGRAPHIC ADDRESS—“BAYLEAF LONDON.”

Highest Award and Gold Medal, Antwerp; Silver Medal, Rome, 1894; Highest Award, Chicago, 1893.

RELIABLE AND ELEGANT
PHARMACEUTICAL PREPARATIONS
 OF
WM. R. WARNER & CO.

Soluble Coated Pills in Improved Registered OVAL PEDESTAL PILL VASES, with Vitrified Opal Glass Labels.

In Permanent Pink or Blue, Gilt Bordered and Hand-Painted.

In three sizes, supplied with either of the following Labels, viz.:—

| | | |
|------------------------------|-------------------------|-----------------------------|
| “Sweet Little Liver Pearls.” | “Little Rhubarb Pills.” | “Quinine Pills.” |
| “Little Aperient Pills.” | “Digestive ” | “Little Podophyllin Pills.” |
| “Cathartic ” | “Dinner ” | “Antibilious ” |

Per Vase of 3,000 “Little” Pills, Formula 142, 180, or 184 (“Little Rhubarb,” &c.), 14.6. Height, 9 $\frac{1}{2}$ in.; breadth, 3 in.

IN TWO LARGER SIZES, OF WHICH DIMENSIONS ARE GIVEN AT FOOT.

REDUCED PRICES—Filled with Soluble Sugar-Coated Pills (these registered Vases are supplied ONLY with Pills).

| | | Ordinary
size
containing
1,000 Pills | Largest
Vase
containing
2,000 Pills |
|---|----------------|---|--|
| Vase of (No. 120) Cathartic and Liver Pill's .. | .. .. .. .. .. | £ s. d. | £ s. d. |
| “ 12b (Active) .. | .. .. .. .. .. | 0 8 6 | 0 14 0 |
| “ 125 or 135 Pill. Rue Co. .. | .. .. .. .. .. | 0 9 2 | 0 14 10 |
| “ 75 Antipericotic .. | .. .. .. .. .. | 0 11 3 | 0 18 0 |
| “ 27 Aloes c. Fr. B.P. .. | .. .. .. .. .. | 0 17 6 | 1 12 0 |
| “ 29 Aloes Socot. B.P. .. | .. .. .. .. .. | 0 11 2 | 0 19 4 |
| “ 41 Ipecac. c. Scilla B.P. .. | .. .. .. .. .. | 0 11 0 | 0 19 0 |
| “ 49 Antibilious Veg. .. | .. .. .. .. .. | 0 13 0 | 1 3 0 |
| “ 91 Colic, Hyd. et Hyos. .. | .. .. .. .. .. | 0 12 8 | 1 3 0 |
| “ 117 Anticostipation .. | .. .. .. .. .. | 0 15 2 | 1 6 6 |
| “ 141 Arthrosis .. | .. .. .. .. .. | 0 12 8 | 1 2 6 |
| “ 142 180. or 134 Little Cathartic, &c. (small Vase) .. | .. .. .. .. .. | 0 7 0 | 1 17 0 |
| “ 145 Rheumatic .. | .. .. .. .. .. | 0 18 0 | 1 13 0 |

Any other formulae in List at proportionate rates.

100 Circular Labels (assorted or not) free, on request, with every £1 worth of Sugar-coated Pills in the List of W. R. WARNER & CO. (They are best adapted to No. 142, 180, or 184.) Price per 100, any kind, if required separately, 4d.; 1,000 of one kind, 1/8.

No. 1. Little Antibilious Pills.

“ 2. Little Aperient Granules.

“ 3. Little Cathartic Granules.

“ 4. Sweet Little Liver Granules.

No. 5. May Apple Liver Pills.

“ 6. Little Comp. Podoph. Granules.

“ 7. Compound Eryngium Pearls.

“ 8. Little Comp. Rhubarb Pills.

No. 9. Sugar-coated Little Liver Pills.

“ 10. Sweet Little Dinner Pills.

“ 11. Sweet Little Digestive Pills.

Screw-capped Pill Tubes, “No. 2 B, 1 diam Narrow,” the size adapted to the profitable retail sale of “Little” Pills, 9/- per gross.

DIMENSIONS FOR SHELVING.—Smallest Pedestal Vase, as Woodcut, height 9 $\frac{1}{2}$ in.; breadth 3 in. Medium (ordinary), ditto, height about 11 in.; breadth about 3 $\frac{1}{2}$ in. Largest (or third size), ditto, height about 13 $\frac{1}{2}$ in.; breadth about 4 $\frac{1}{2}$ in.

Send for New and Complete List, giving Formulæ, of W. R. Warner & Co.'s Preparations revised to date.

SOLUBLE COATED PILLS.

COMPRESSED LENTIFORMS, Packed for Retail, or in Tins & Counter Vases.
HYPODERMIC COMPRESSED DRUGS.

“STAR BRAND” LIQUORICE LOZENGES.

SILVER-BURNISHED AND SUGAR-COATED CACHOUS.

BROMO-SODA, INGLUVIN, &c., &c.

IN STEADY SALE ALL THE YEAR ROUND AND ALL THE WORLD OVER.

Depot:—F. NEWBERRY & SONS, 1 & 3 King Edward St., Newgate St., **LONDON, E.C.**



JUJUBES and PASTILLES.

MANUFACTURED BY

BLYTON, ASTLEY & Co.,

Manufacturing Pharmacists,

MANCHESTER.

SALES

Doubled, sometimes Trebled,
by suitable display
of these Jars.

WHY HIDE YOUR GOODS IN TIN BOXES?

Try a set of Jars. The result will surprise you.

4-lb. Jars, 2/- per lb. nett. Glycerine and Paregorics, 1/8 per lb.
Jars, 1/- each, nett.

“LANOLINE”

Every Chemist

SHOULD USE

“LANOLINE” AS AN OINTMENT BASE, AS IT

never turns rancid;

admits of the admixture of any quantity of water;
confers stability and permanence on ointments prepared with it.

UNGUENTUM LANOLINI

is an Ointment

WHICH CONSISTS OF

“LANOLINE” and 30 per cent. of Soft Paraffin B.P.

UNGT. LANOLINI is comparatively inexpensive.

UNGT. LANOLINI is non-sticky.

TOILET “LANOLINE.”

A SUPERIOR PREPARATION FOR THE SKIN.

IN TUBES CONVENIENT FOR USE IN

SUNBURN, CHAFING, CHAPPING, REDNESS, AND
WRINKLING OF THE SKIN.

“LANOLINE” and its preparations, Soaps, Pomades, &c., can be obtained from

BURROUGHS, WELLCOME & CO.

SNOW HILL BUILDINGS, LONDON E.C.

INFLUENZA.

WYETH'S BEEF JUICE

IS ACKNOWLEDGED THE BEST

**NOURISHING AND
STIMULATING FOOD**

For Restoring the Tone; Strengthening
and Nourishing the System, in an
attack of Influenza, and in Con-
valescence from the same.

Being LARGELY PRESCRIBED by PHYSICIANS at this time of the
EPIDEMIC, all RETAIL CHEMISTS should keep up their Stock of

WYETH'S BEEF JUICE.

To be obtained from all Wholesalers.

JOHN WYETH & BROTHER

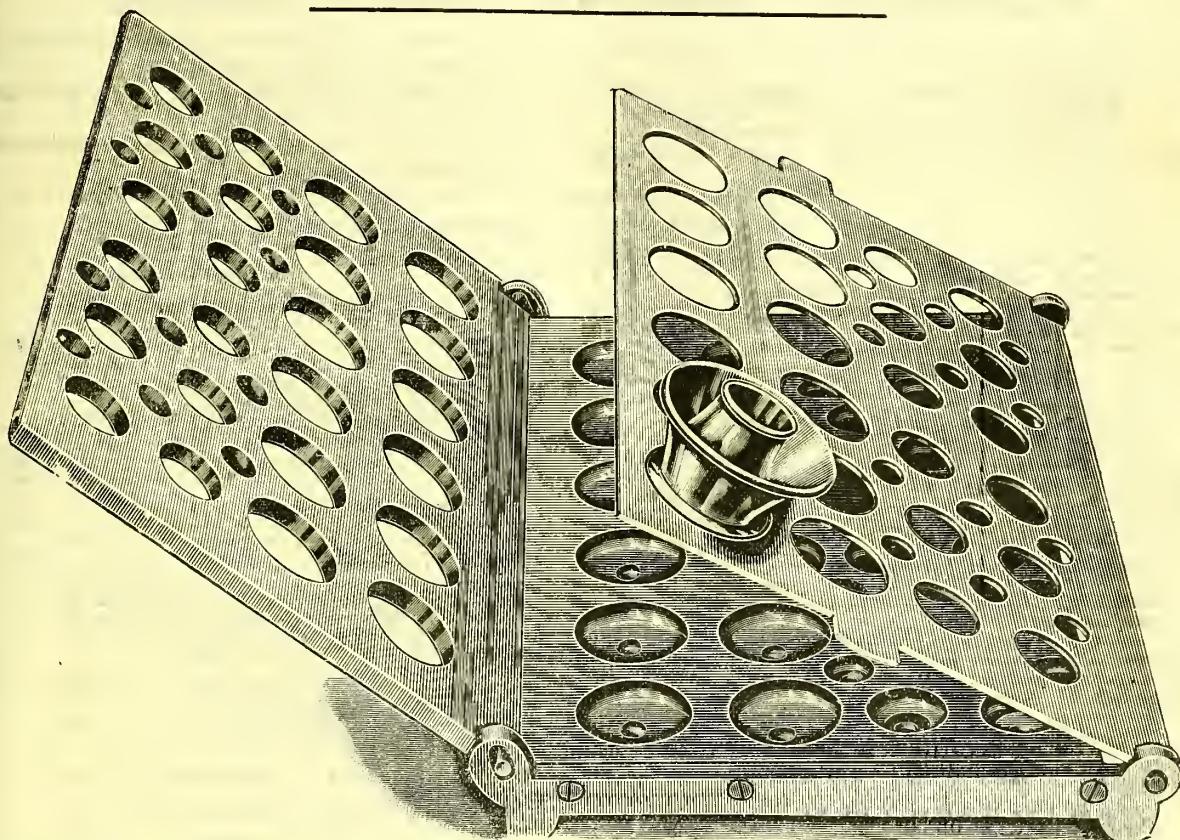
MANUFACTURING PHARMACEUTICAL CHEMISTS,

PHILADELPHIA, U.S.A.; & 30 SNOW HILL, LONDON, E.C.

The Standard Preparation of Pure Woolfat is

ADEPS LANÆ N.W.K.

Supplied at 2/- lb. Anhydrous and at 1/11 lb. in 7-lb. tins.



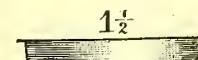
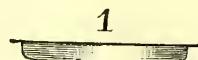
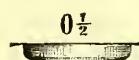
This is the apparatus without which no Pharmacy is complete, because—

WITHOUT IT:—Cachets are a nuisance!

WITH IT:—Cachets form a PROFITABLE LINE and AN UNEQUALLED VEHICLE FOR DISPENSING PROPRIETARY HEADACHE, NEURALGIA, OR OTHER POWDERS.

COUNTLESS TESTIMONIALS! UNIVERSAL SATISFACTION!

“Morstadt” Cachets are supplied in the following 6 sizes, with a capacity of $1\frac{1}{2}$ grains to 18 grains Quinine or 28 grains Sulphonal.



PETROLEUM JELLY.

A1 QUALITY—CONSTANT SUPPLY—EQUAL THROUGHOUT.

For Samples and Full Particulars apply to.

THOS. CHRISTY & CO., LONDON, 25 LIME ST., E.C.

CAPSULED "MCK. & R." PILLS.

McKesson & Robbins : Originated 1870 : New York.

WHY SHOULD THE "MCK. & R." PILLS BE PRESCRIBED?

1. Because they are prepared from materials of the highest quality only.
2. Because they are made according to the B.P. or other Standard Authorities, and therefore all the combinations are well tried and of recognised value.
3. Because they are taken pleasantly—being tasteless—and readily, being ovoid in form.
4. Because they are not subjected at any stage of preparation to the injurious action of heat.
5. Because the coating of *pure transparent gelatin* preserves the contents from oxidation.
6. Because they are always soluble, and the contents soft and quickly disintegrated.

LIST OF PRINCIPAL CAPSULED PILLS.

| | |
|--|---|
| Aloes, all the B.P. combinations | 5 gr. |
| Aloes, Dilute (Dr. Hall Dianer Pill)..... | 4 gr. |
| Aloes Barb. | Pulv. Ext. Glycyrrh. |
| Saponis Pulv. | Theriaca, $\ddot{\text{a}}$ 1 gr. |
| Aloes and Nux Vomica— | |
| Aloes Sec. | 1 gr. \| Ext. Nuci Vom. 1 gr. |
| Aluin | 1, 2, 3, 1 gr. |
| Aloin, various combinations. | |
| Anti-Dyspepsia (Fothergill)— | |
| Strychnina | 2-3 gr. \| Pulv. Ipecac. 2-3 gr. |
| Pulv. Piper Nig. | 1 $\frac{1}{2}$ gr. Ext. Gent. 1 gr. |
| Arsenious Acid..... | 1-20, 1-50 gr. |
| Asafoetida, U.S. and B.P. | 5 gr. |
| Atropine..... | 1-100, 1-300 gr. |
| Blue Pill, B.P. | 1, 2, 3, 5 gr. |
| Blue Pill, with Gelsecum and Hyoscyamus. | 5 gr. |
| Galcium Sulphide | 1-10, 1-4, 1-2, 1 gr. |
| Galemei, Coicyna, and Hyos. | 5 gr. |
| Galemei Co., B.P. | 5 gr. |
| Camphor and Hyoscyamus..... | 2 gr. |
| Camphore. | Ext. Hyoscy., $\ddot{\text{a}}$ 1 gr. |
| Cannabis Indica | 1-4, 1-2 gr. |
| Cascara Sagrada | 3 gr. |
| Cathartie Comp., U.S.P. | |
| Ext. Jalap | 1 gr. \| Hyd. Sibchler..... 1 gr. |
| Ext. Coloc. Oz. | 1 1-3 gr. \| Gambog. 1-4 gr. |
| N.B.—The ready solubility of the "MCK. & R." Pill is readily proved by taking a dose of these. | |
| Celosynth Comp., B.P. | 4, 5 gr. |
| Celosynth, other combinations. | |
| Copalba Compound— | |
| Olibrea Pulv. | 2 gr. \| Mass. Copalb. 1 gr. |
| Ferr. Sulph. Extic. | 1-2 gr. \| Tereb. Venet. 1-2 gr. |
| Cerresive Sublimate | 1-30, 1-20, 1-10 gr. |
| Croton Oil | 1-2 gr. |
| Diuretic— | |
| Ext. Buchn., Potass. Nitrat..... 1 gr. | |
| Seillies Pulv..... 1-2 gr. | |
| Emmenagogue— | |
| Ferr. Sulph. Extic. | 1 1-2 gr. |
| Thins, American | 1 1-2 gr. |
| Aloes Socot. | 1-2 gr. |
| Ergotin | 5 gr. |
| N.B.—Each Pill = 30 gr. ergot or 30 ms. fl. extract. This form is more reliable and uniform in effect and more agreeable than the liquid preparations. | |
| Euonymum..... | 2, 3 gr. |
| Iodiform and Iodoform with Iron | 1 gr. |
| Ipecac. | 1-4, 5 gr. |
| Ipecac. Oz. | 4, 5 gr. |
| Ipecac. and Squill, B.P. | 5 gr. |
| Iron Pill, B.P. Add. | 3, 5 gr. |
| Iron Arseniate..... | 1-8 gr. |
| Iron reduced by Hydrogen (Quevenne). | 1, 4 gr. |
| Iron and Quinine Citrate | 2 gr. |
| Phosphorus | Largely prescribed in America with excellent results. |
| Rhubarb Comp., B.P. | 5 gr. |
| Rhubarb with Blue Pill | 5 gr. |
| Salicylic Acid | 2, 5 gr. |
| Soap Comp., B.P. | 5 gr. |
| Squill Comp., B.P. | 5 gr. |
| Strophantus | 1-20, 1-4 gr. |
| Strychnine | 1-60 gr. |
| Tonic Laxative (Fothergill)— | |
| Quinines Sulph. 2-3 gr. \| Ferr. Redact. | |
| Strychn. 1-30 gr. \| Ext. Bellad., $\ddot{\text{a}}$ 1-4 gr. | |
| Valerianate, Iron, Quinine, and Zinc. | |
| Warburg's Tincture and the same without Aloes. | |
| Each Pill = 1 fl. drm. of the Tincture. | |
| Zinc Phosphide | 1-4, 1-2 gr. |
| Zinc Valerianate..... | 1 gr. |

Special Combinations of 3,000 or more Pills made and Capsuled to order for Hospitals, &c., at Special Quotations.

London Agency:—Messrs. S. Maw, Son & Thompson, 7 to 12 Aldersgate Street, E.C.

ALSO SUPPLIED BY

MESSRS. BURROUGHS, WELLCOME & CO., Snow Hill Buildings, London, E.C.;

MESSRS. GRIMWADE, RIDLEY & CO., 7 Union Court, Old Broad Street, London, E.C.

We have something of interest to say to all Chemists who desire to cultivate a trade with Medical Men.

WRITE US.

SPECIAL.

BEFORE BUYING PEPSIN OR
ACCEPTING ANY BARE STATEMENT
AS TO TEST, WILL YOU WRITE US
FOR A SAMPLE AND COMPARE
OUR FERMENT WITH COM-
PETING GOODS

?

Armour & Co.

59 Tooley Street, London, S.E.

Laboratories :
Chicago, U.S.A.

ARMOUR'S
LACTATED PEPSIN.

The most powerful combination of the digestive ferments. Packed in 1-oz., 4-oz., and 8-oz. bottles, in attractive cartons, yields a remarkably good profit to the retailer. It is rapidly gaining favour with the medical profession.

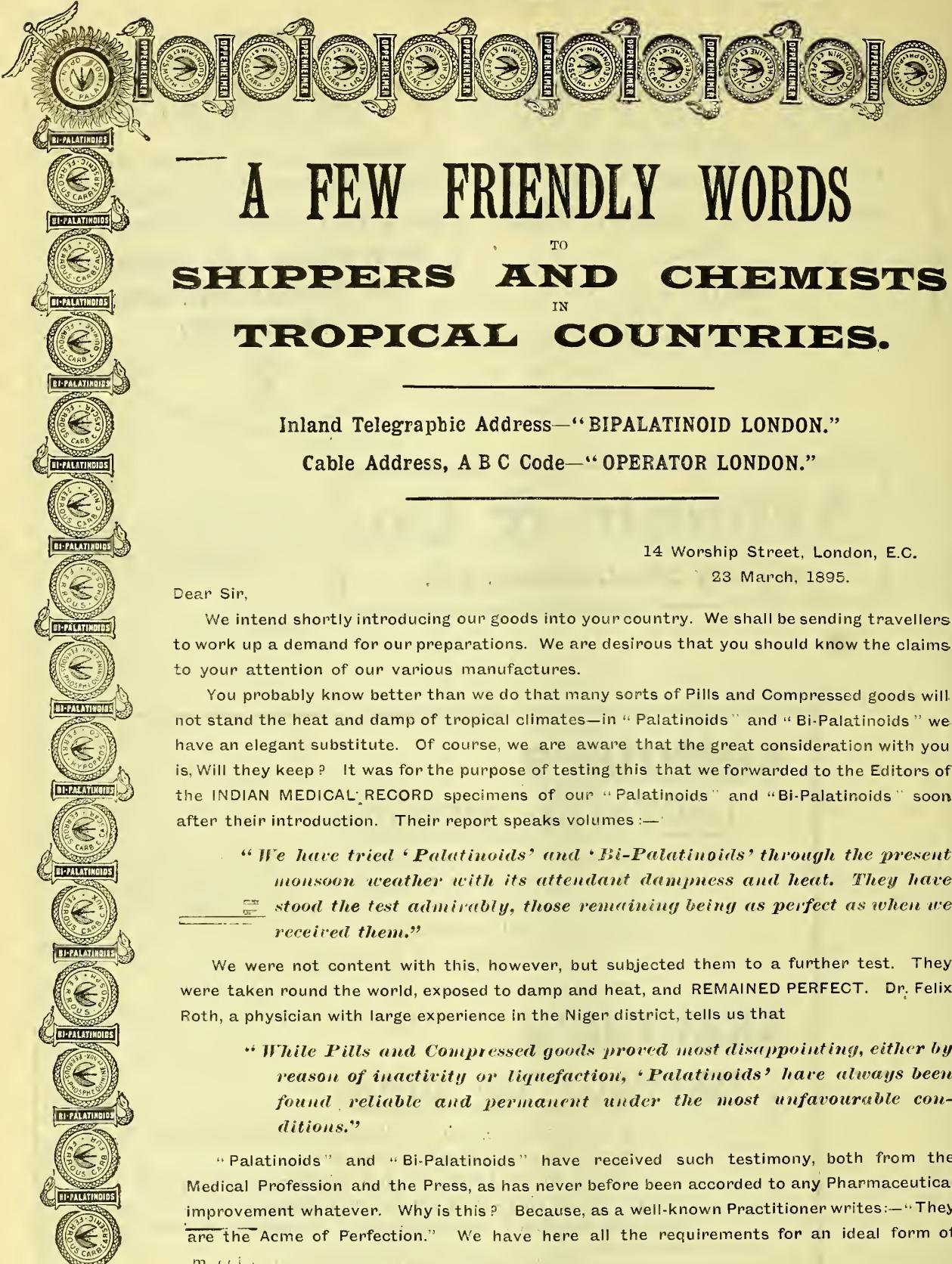
PRICES AND PARTICULARS ON APPLICATION.

ARMOUR'S
EXTRACT OF BEEF

Is a leading article with all Chemists who appreciate that the public expect to get the best quality from them.

It appeals to the Chemist from a scientific as well as from a business point of view—it *is* the best and *pays* the best. Not a Store in the kingdom is cutting the price. All buyers are offered the same terms.

SAMPLES AND DETAILS ON APPLICATION.



A FEW FRIENDLY WORDS

TO

SHIPPERS AND CHEMISTS

IN

TROPICAL COUNTRIES.

Inland Telegraphic Address—“BIPALATINOID LONDON.”

Cable Address, A B C Code—“OPERATOR LONDON.”

14 Worship Street, London, E.C.

23 March, 1895.

Dear Sir,

We intend shortly introducing our goods into your country. We shall be sending travellers to work up a demand for our preparations. We are desirous that you should know the claims to your attention of our various manufactures.

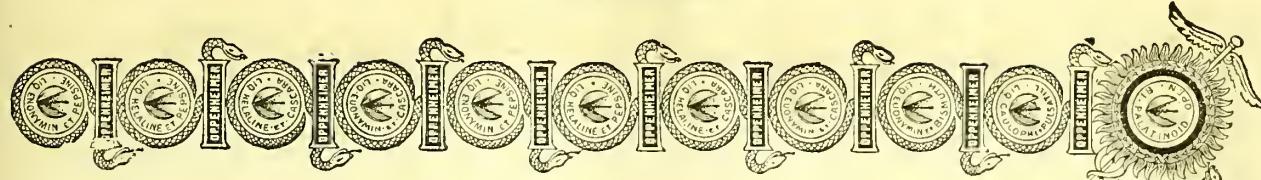
You probably know better than we do that many sorts of Pills and Compressed goods will not stand the heat and damp of tropical climates—in “Palatinoids” and “Bi-Palatinoids” we have an elegant substitute. Of course, we are aware that the great consideration with you is, Will they keep? It was for the purpose of testing this that we forwarded to the Editors of the INDIAN MEDICAL RECORD specimens of our “Palatinoids” and “Bi-Palatinoids” soon after their introduction. Their report speaks volumes:—

“We have tried ‘Palatinoids’ and ‘Bi-Palatinoids’ through the present monsoon weather with its attendant dampness and heat. They have stood the test admirably, those remaining being as perfect as when we received them.”

We were not content with this, however, but subjected them to a further test. They were taken round the world, exposed to damp and heat, and REMAINED PERFECT. Dr. Felix Roth, a physician with large experience in the Niger district, tells us that

“While Pills and Compressed goods proved most disappointing, either by reason of inactivity or liquefaction, ‘Palatinoids’ have always been found reliable and permanent under the most unfavourable conditions.”

“Palatinoids” and “Bi-Palatinoids” have received such testimony, both from the Medical Profession and the Press, as has never before been accorded to any Pharmaceutical improvement whatever. Why is this? Because, as a well-known Practitioner writes:—“They are the Acme of Perfection.” We have here all the requirements for an ideal form of



MERIT WILL TELL!

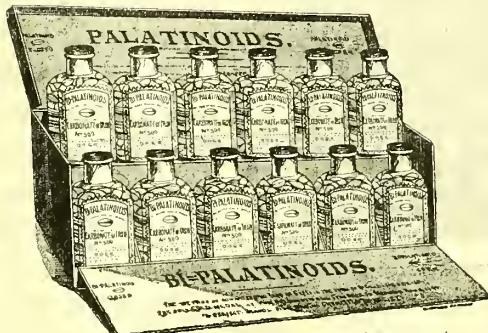
This was shown at the Eleventh International Congress of Medicine, held in Rome last spring, where a Jury of Professors judged "Palatinoids" and "Bi-Palatinoids" worthy of the distinction of a GOLD MEDAL, we being the only house to whom this honour was given. Hitherto our efforts have been almost entirely confined to the home trade. We have had as much as we could do to manage this. We struck out an original line; we anticipated success; and we have succeeded. Now we take a look abroad, and, with our home experience to back us up, we do so with every feeling of confidence. We invite your co-operation.

OUR METHODS OF BUSINESS.

We thoroughly sample your medical men with our preparations, at the same time sending a representative to distinctly bring our goods before their notice. What follows? A good demand springs up, the benefit of which is mutual. The goods are elegant in appearance, and certainly superior to any similar preparations on the market.

HOW "PALATINODS" AND "BI-PALATINODS" ARE PUT UP.

"Palatinoids" and "Bi-Palatinoids" for tropical countries are put up in elegant little stoppered bottles, neatly labelled, one dozen in a cartoon forming a very attractive,



saleable package, which adds to the neatness of the Chemist's counter. The accompanying blocks will give some idea of their appearance.



WE INVITE YOUR CORRESPONDENCE.

If you have seen "Palatinoids" we feel sure their elegance, accuracy of dosage, quality of contents, as well as their ease of deglutition and absence of extraneous excipient, will at once strike you. We shall be pleased to forward you specimens of them. May we do so? The "Palatinoid" and "Bi-Palatinoid" form of medication is comparatively new, having only been on the market four years. We append blocks showing the actions of the "Palatinoid" and "Bi-Palatinoid" in water.

Palatinoid



Open.

Palatinoid or



Bi-Palatinoid Closed.

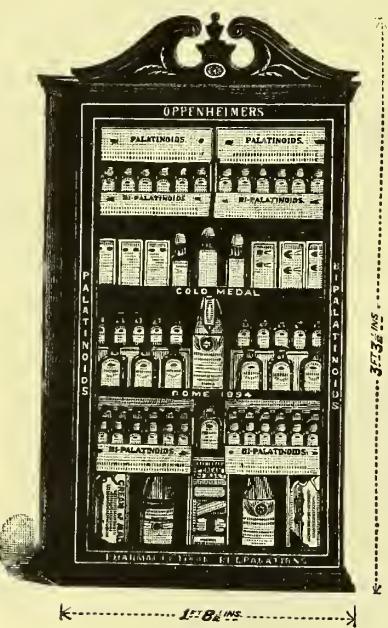
Enlarged



Bi-Palatinoid Open.

By this you will see that when a "Palatinoid" is placed in moisture at the temperature of the stomach, it opens after three minutes' immersion, something like an oyster, and the drug is ejected. One of the great features of the "Palatinoid" is that it can be so easily swallowed.

We find bad pill-takers and children swallow them with the greatest ease. If you take up "Palatinoids," please note you introduce to your customers the most perfect form of medication known. We shall be pleased to send you an assortment of, say, £20 worth of our goods, and this amount will entitle you to one of our elegant upright rosewood showcases, with bevelled plate-glass front, handsomely inlaid with ivory-wood. Here is a block representing same.



Finally, are you a Progressive Chemist? If so, you are the person we want, with whom we can do business as beneficial to you as to ourselves. We do not endeavour to persuade you that we are doing business for your benefit alone. We desire to help ourselves at the same time, but we want it to be mutual. An order for the net amount mentioned would establish you as a Depot, and we will assist in the disposal of the stock in every possible way.



| | Per Doz. 1/- Bottles. | Per Grs. | | Per Doz. 1/- Bottles. | Per Grs. | | | |
|------------------------------------|-----------------------|----------|----------------|-------------------------------|----------|-----|------|-----|
| Aconite Tinct., 1 min. | ... | 8/6 | 2/6 | Lapactic | ... | ... | 8/6 | 3/- |
| Alois Compound | ... | 8/6 | 2/6 | Laxative | ... | ... | 9/6 | 4/- |
| Aloin Strychnine & Belladonna | 8/6 | 3/- | | Laxatonic | ... | ... | 8/6 | 3/- |
| Aloin Podophyllin & Belladonna | 8/6 | 2/6 | | Menthol, 1 gr. | ... | ... | 10/6 | 4/6 |
| Alterative Comp. | ... | 8/6 | 2/6 | Migraine | ... | ... | 9/6 | 3/6 |
| Antacid (Soda Mint) | ... | 8/6 | 2/6 | Morphine Hydrochlor., 1 gr. | ... | 8/6 | 3/- | |
| Antibilious | ... | 8/6 | 3/- | Neuralgic Comp. | ... | ... | 8/6 | 2/6 |
| Anticonstipation | ... | 8/6 | 2/6 | Nux Vomica Tinct., 5 mins. | ... | 8/6 | 2/6 | |
| Antifebrin, 2½ grs. | ... | 8/6 | 2/6 | Opium, ½ gr. | ... | 8/6 | 3/- | |
| Belladonna Tinct., 5 mins. | ... | 8/6 | 2/6 | Opium, with Calomel | ... | 8/6 | 3/- | |
| Bismuth Subnit., 2 grs. | ... | 8/6 | 2/6 | Opium Tinct., 5 mins. | ... | 8/6 | 2/6 | |
| Bismuth Subnit., with Pepsin... | 8/6 | 3/- | Pectoral Comp. | ... | 8/6 | 2/6 | | |
| Butyl Chloral Hydrate, 5 grs.... | — | 5/6 | | Pepsine and Gingerine | ... | 8/6 | 2/9 | |
| Caffeine Citrate, 2½ grs. | ... | 8/6 | 2/6 | Peptonic | ... | 9/6 | 3/9 | |
| Camphor, 1 gr. | ... | 8/6 | 2/6 | Phenacetine and Caffeine Cit- | | | | |
| Camphor Co. | ... | 8/6 | 2/6 | rate ää, 2½ grs.... | ... | 8/6 | 3/- | |
| Cannabis Tinct., 5 mins. | ... | 8/6 | 2/6 | Phenacetine, 5 grs. | ... | 8/6 | 3/- | |
| Cascara Sagrada Co. | ... | 8/6 | 2/6 | Podophyllin, ½ gr.... | ... | 8/6 | 2/6 | |
| Cascara Nux and Belladonna | ... | 8/6 | 2/6 | Podophyllin and Calomel | ... | 8/6 | 2/6 | |
| Cathartic Comp. | ... | 8/6 | 2/6 | Potassium Bromide, 2 grs. | ... | 8/6 | 3/6 | |
| Cerium Oxalate, 2 grs. | ... | 8/6 | 2/6 | Quinine and Gelsemin | ... | 8/6 | 3/6 | |
| Creasote, ¼ min. | ... | 8/6 | 3/6 | Quinine Sulph., 1 gr. | ... | 8/6 | 1/3 | |
| Croton Oil, 1 min. | ... | 8/6 | 3/6 | Quinine Sulph., 2 grs. | ... | 8/6 | 1/9 | |
| Digestive | ... | 8/6 | 2/6 | Rheumatic Comp. | ... | 8/6 | 2/6 | |
| Digitalis Tinct., 10 mins. | ... | 8/6 | 2/6 | Rhubarb Comp., 5 grs. | ... | 8/6 | 2/6 | |
| Dover's Powder, 4 grs. | ... | 9/6 | 4/- | Rhubarb Comp. and Grey | | | | |
| Emmenagogue | ... | 8/6 | 4/6 | Powders | ... | 8/6 | 2/6 | |
| Ergotin Comp. | ... | — | 4/6 | Saccharine, ½ gr. | ... | 8/6 | 2/6 | |
| Eucalyptol, 1 min. | ... | 8/6 | 3/6 | Salol, 5 grs. | ... | 8/6 | 2/9 | |
| Euonymin and Cascara Co. | ... | 8/6 | 2/6 | Santal Comp. | ... | 9/6 | 4/- | |
| Euonymin and Podophyllin | ... | 8/6 | 2/6 | Santal Oil, 5 mins. | ... | — | 7/6 | |
| Ferri Peptonas, 1 gr. | ... | 8/6 | 2/6 | Santonin and Calomel | ... | 8/6 | 3/- | |
| Ferri Phosph. Co. (Parrish's Food) | 8/6 | 3/6 | | Stomachic | ... | 8/6 | 2/- | |
| Ferri et Quin. Citr., 2 grs. | ... | 8/6 | 2/6 | Sulphonal, 5 grs. | ... | 8/6 | 3/- | |
| Ferri Sulph. et Aloes | ... | 8/6 | 2/6 | Sulphur Comp. | ... | 8/6 | 2/6 | |
| Gelsemium Tinct., 5 mins. | ... | 8/6 | 2/6 | Terebene, 5 mins. | ... | 8/6 | 3/6 | |
| Ginger Tinct., 5 mins. | ... | 8/6 | 2/6 | Terpinol, 5 mins. | ... | 8/6 | 3/6 | |
| Hepatic Comp. | ... | 8/6 | 3/- | Thymol, 1 gr. | ... | 8/6 | 3/- | |
| Hydrarg. c. Cretä, 1 gr. | ... | 8/6 | 2/- | Thyroid Gland, ½ th (equiv.) | ... | 8/6 | 3/6 | |
| Hydrarg. Subchlor., 2 grs. | ... | 8/6 | 2/6 | Tonic Comp. | ... | 8/6 | 2/6 | |
| Hyoscyamus Tinct., 10 min. | ... | 8/6 | 2/6 | Turpentine, 5 mins. | ... | 8/6 | 3/6 | |
| Iodoform, 1 gr. | ... | 8/6 | 5/6 | Zinc Oxide, 1 gr. | ... | 8/6 | 2/6 | |

Of "Bi-Palatinoids," the following are suggested as stock, being much asked for:—

| | Per Doz. 1/- Bottles. | Per Grs. |
|---|-----------------------|----------|
| Ferrous Carbonate (Blaud's Pill, 4 grs.) | ... | 8/6 |
| Ferrous Carbonate and Arseniate | ... | 9/6 |
| Ferrous Carbonate, with Aloes | ... | 9/6 |
| Ferrous Carbonate, with Aloes and Quinine | ... | 9/6 |
| Ferrous Carbonate, with Nux and Quinine | ... | 9/6 |
| Ferrous Phosphate | ... | 9/6 |
| Ferrous Phosphate, with Nux and Quinine | ... | 9/6 |
| Hypophosphites Co. (each equivalent to a teaspoonful of the B.P. Syrup) | 9/6 | ... |
| Ferrous Carbonate, with Ext. Cascara Sagrada | ... | 9/6 |
| Ferrous Carbonate, with Ext. Cascara Sagrada and Nux Vomica | ... | 9/6 |
| Ferrous Carbonate, with Potass. Permang. | ... | 9/6 |
| Ferrous Phosphate, with Potass. Permang. | ... | 9/6 |
| Potass. Permang., with Strych. and Quinine | ... | 9/6 |
| Ferrous Carbonate and Euonymin | ... | 9/6 |
| Ferrous Salicylate, 2 grs. | — | — |

YOURS VERY FAITHFULLY,

OPPENHEIMER, SON & CO., Limited.

ADVANCED PHARMACY.

PRODUCTS OF
BURROUGHS, WELLCOME & CO.

Anti-diphtheritic Serum.

The large demand for this Serum and the frequent failure of previous sources of supply to keep up with our wants have induced us to produce an Anti-diphtheritic Serum prepared on our own responsibility and at our own laboratories. The whole process is conducted on the lines adopted at the Institut Pasteur, Paris, and under the personal supervision of a distinguished London bacteriologist, so that the Serum may be thoroughly relied upon as to both potency and freedom from septic influences. We have been preparing for some time a number of horses, of the sound and perfectly healthy condition of which we have ample scientific evidence, and more recently we have trebled their number, so that as they become successively "immune" our supply will be more constant and the volume of Serum at our disposal much larger. Supplied in vials, each containing 30 c.c., an average dose.

The Very Latest Idea.

After an extensive series of experiments, we have succeeded in producing a dried Anti-diphtheritic Serum of full potency, and perfectly and quickly soluble in water at normal temperatures. One gramme of Anti-diphtheritic Serum Exsiccatum (B., W. & Co.) is equal to 10 cubic centimetres of the liquid Serum. Supplied in 1-gramme tubes at 1s. each.

Artificial Ear Drums.

These consist of miniature cones, made of compressed cotton coated with plastic collodion and rendered antiseptic. They are highly successful in cases of perforation of the tympanum, giving real relief in many cases of deafness. They are easily inserted by the patients themselves (by means of a combined holder and forceps) and can be very easily removed. Moreover, while in position in the aural meatus they are scarcely noticeable to the eye, are thoroughly antiseptic, and never cause inconvenience or irritation. They are supplied in four sizes, Nos. 1, 2, 3, and 4, the last named being the largest.

"Paroleine" Ointment Atomisers.

The "Paroleine" Atomisers (B., W. & Co.) are intended for the atomisation of oily substances. They are more easily used than the ordinary complicated instruments; they are very portable, simply constructed, and easily freed from all traces of medicament. There are two forms, one for nasopharyngeal use, the other for post-nasal use.

Beef and Iron Wine.

In this preparation are contained the stimulant properties of Beef, together with a readily absorbed salt of Iron. Its value as a tonic and stimulant cannot be over-estimated, and by reason of its palatability, stability, and perfect assimilation, it has for a long time been justly valued by the medical profession as a desirable addition to the range of nutrient stimulants. It is specially valuable for its tonic and force-producing properties, its peculiar

features being that it combines nutrient, tonic, and stimulant material in a palatable and concentrated form. It is most comfortably borne by the most delicate or sensitive patients in whose cases other forms of iron are inadmissible. Each tablespoonful contains the essence of an ounce of beef with two grains of citrate of iron dissolved in good sound-bodied sherry.

Benzosol.

Benzosol is a tasteless Benzoate of Guaiacol, combining the therapeutic effects of both Guaiacol and Benzoic Acid without the disagreeable after-effects of either. It has been found of marked benefit in tuberculous diseases, and is most effectually administered in the form of "Tabloids" of 5 grs. each.

Vereker Chloride of Ammonium Inhaler.

The chief advantages afforded by this Inhaler are that it is easy to put into working order, that the fumes are neutral, and that anyone can use it without trouble. The fumes it yields cause no irritation, and exert a truly wonderful action upon congested mucous membrane and thick tenacious secretions. They may reach the remotest part of the respiratory mucous surfaces and are absolutely harmless.

Dermatol.

This drug is a basic Sub-gallate of Bismuth. It is non-toxic and powerfully antiseptic, and exerts also a mildly astringent, drying action. It is an effective substitute for Iodoform, and is valuable in the treatment of skin diseases generally. It has also been taken internally as an intestinal antiseptic with excellent results. "Tabloids" contain 5 grs. each, and are highly convenient, especially in the treatment of flatulent dyspepsia, when the patient is required to carry about his doses for frequent and ready administration.

Diuretin—"Knoll."

The action of Diuretin appears to be that of a simple and powerful diuretic, which is due to the direct influence it exerts upon the secreting tissue of the kidney. The most convenient and reliable form of the drug is in "Tabloids," 5 grs. in each.

Dermatol Dusting-Powder.

A perfect preparation for Toilet and Nursery uses. The formula was originally suggested by Drs. Heinz and Liebrecht with the view of embodying and utilising the valuable properties of Dermatol for the daily requirements indicated.

This new Toilet Powder may be relied upon as being absolutely non-poisonous, free from odour, and from all possibly irritating material. The properties of Dermatol, either as a vulnerary or for its soothing effect upon the skin, and its drying and antiseptic character are well known and recognised in many memoirs that have appeared of late; and, when this fact is considered, the Dermatol Dusting-Powder, which is a combination of Dermatol with pure rice-starch powder, will readily recommend itself as a high-class toilet preparation. In boxes containing 50 grammes (about 1½ oz.) each.

"Pinol-Eucalyptia" Dry Inhaler.

This consists of a glass tube something like a cigar in shape, filled with absorbent pinewood chips. One end of the tube forms a glass mouthpiece, and at the other end is a piece of wire gauze. The Pinol, "Eucalyptia," or other inhalant, is dropped into the wide end of the tube until the absorbent chips are saturated, and the Inhaler is then

"Pinol-Eucalyptia" Dry Inhaler.—cont.

ready for use. By taking deep inspirations, the air drawn through the Inhaler is fully charged with the vapour of the inhalant. This mode of inhalation possesses special advantages over steam inhalation:—

- (1) The inhaler may be used at any time without danger of catching cold.
- (2) It is extremely portable, and may be conveniently carried in the vest pocket ready for immediate use.
- (3) The cube form of the pinewood used gives for so small an instrument an enormous surface, so that the oxidising effect is much increased as the inhaled air passes through.

Emol-Keleet.

A most delightful, mildly astringent, absorbent dusting-powder, of soft and silky texture, vastly superior to any drying or dusting powder hitherto known. Speedily dries and soothes in cases of moist, sensitive, inflamed, irritated, or chafed surfaces. Softens and smoothes hard and rough skin. A perfect soothing and absorbent powder for toilet purposes, and for prickly heat in hot climates. Efficacious in Eczema and Acne. In cases of eruptions in Scarlet Fever and Measles it relieves irritation.

This powder is a simple, purified, natural, product, which on analysis is found to be somewhat allied to superior varieties of Fullers' Earth. It contains a considerable percentage of Steatite, Silica, Alumina, and traces of Calcium Salts and Ferrous Oxide. The value of Emol-Keleet in the treatment of skin diseases has already excited great interest amongst the medical profession. In all cases it is perfectly harmless.

"Eucalyptia."

Is extensively employed for inhalation, and acts as a stimulating expectorant. It may be inhaled in combination with Ammonium Chloride vapour from the Vereker Chloride or Ammonium Inhaler, or dry with the "Pinol-Eucalyptia" Dry Inhaler or Menthol Pocket Inhaler. Such inhalations afford excellent results in catarrh, ozaena, cold in the head, sore throat, aphonia, asthma, bronchitis, and phthisis. A good method for using "Eucalyptia" in steam inhalations is to drop 30 minims of the oil on the sponge of a Wallich's Improved Inhaler, place in the jug a pint of boiling water, and inhale from the mouthpiece. The steam is drawn through the sponge without difficulty, and in passing through becomes thoroughly saturated with the "Eucalyptia," which is conveyed into the lungs and air-passages.

Fairchild Digestive Ferments.

The Fairchild preparations are the result of original special work devoted to the digestive ferments. They are remarkable for their uniform character and activity. The Pepsin in scales is free from all added substance; Glycerinum Pepticum is an agreeable, bright, pure glycerine extract from fresh Pepsin Porci. "Zymine" (Extractum Pancreatis) contains all the ferments of the pancreas in a pure dry powder. Peptonising Powders, of which the active principle is Fairchild's "Zymine" (Extractum Pancreatis), enable peptonised food for infants and invalids to be prepared with a maximum of satisfaction and a minimum of trouble.

Glycerine Suppositories.

These are an improved form for the administration of Glycerine *per rectum*; defaecation usually results in from two to fifteen minutes after the suppository has been in-

serted. The shells of the suppositories are made of pure Cacao Butter, which is readily dissolved by the heat of the body, and which does not cause irritation as do injections of glycerine.

"Hazeline."

In the whole range of modern remedies which have been taken up by members of the medical profession, and which have retained a lasting hold upon their confidence, few are so generally useful as "Hazeline." It has now permanently taken the place occupied for so long a period by that respectable but much over-rated preparation, Tincture of Arnica; and rightly so, for "Hazeline" possesses all the advantages of Arnica without any of its drawbacks, being in fact many times more useful, since it may fearlessly be used internally as well as externally.

The pain-subduing influence of "Hazeline" makes it of considerable service in painful affections, burns, contusions, sprains, abrasions, &c. It is a styptic of considerable power, and is used largely in haemorrhage of all kinds. Indeed, it may be said that for internal bleeding few agents are so effective, not only because it is generally successful in promptly arresting the flux of blood, but also because it may be given in large quantities without risk of the production of untoward or toxic consequences. In cases of bleeding from external wounds or cuts, whereas formerly Tincture of Iron or Tincture of Myrrh was always in request, "Hazeline" is now called for, because it has none of the objectionable characteristics of either of the old remedies, while it possesses the good and beneficent qualities of both, and is no less prompt in its astringent action.

The antiseptic properties of "Hazeline" are such as to enable it to be used, either diluted or undiluted, in the treatment of both healthy and unhealthy wounds, and, diluted with a little warm water, upon even so delicate an organ as the eye. Where the eyes have an offensive or unpleasant discharge, a few teaspoonfuls of "Hazeline" added to a tea-cupful of water at the temperature of the blood, act as a very soothing and cleansing lotion; or in cases of catarrh or inflammation, such as often supervene as the result of catching cold, a few applications of this lotion will give considerable ease and relief.

The soothing and anodyne effects of "Hazeline" are very practically shown when it is applied to tender surfaces after shaving. Occasionally the newly-bared surfaces will bleed in a very persistent way, but this may be checked at once by simply applying a little "Hazeline" on cotton-wool; it may also be used with great advantage to allay that feeling of irritation which shaving produces on sensitive skins.

Hypodermic "Tabloids."

The fact cannot be too pointedly emphasised that solutions for hypodermic injection should in all cases be prepared at the moment, and it is to enable this to be done with a minimum of trouble and risk that Hypodermic "Tabloids" were introduced. They are tiny discs, each containing an absolutely exact quantity of alkaloid, combined with a perfectly soluble and innocuous base. It takes only a few seconds to produce a perfect solution, and we feel justified in saying that no other method for the ready preparation of solutions just when they are wanted offers the same advantages to the practitioner as the employment of Hypodermic "Tabloids." They may also be used sublingually with great advantage in some causes.

Hypodermic Pocket Case.

These cases comprise complete hypodermic equipments, but at the same time occupy so little bulk that the presence of one of them in the pocket is scarcely felt. Each case contains a carefully-selected syringe with two needles, a selection of hypodermic agents in "Tabloid" form, and a mortar and pestle for crushing the "Tabloids." A booklet dealing with the therapeutic uses of various hypodermic agents is supplied with each case.

Hypodermic Case, Dental.

Although of comparatively recent introduction, this case has already become popular among medical men and pharmacists who devote attention to dentistry. Its convenience and portability will be apparent when it is considered that although it measures only $4\frac{1}{2}$ by $2\frac{1}{4}$ inches, it furnishes a complete Hypodermic Armamentarium for use in dental practice. The contents of the case comprise a specially-constructed syringe with both curved and straight incorrodible needles; a removable syringe holder (a novel feature); Hypodermic "Tabloids," of Cocaine Hydrochlorate, 1-4 and 1-2 grain; Atropine Sulphate, 1-50 grain; Apomorphine, 1-10 grain; Caffeine Sodio-Salicylate, 1-2 grain; Morphine Sulphate, 1-4 grain; and a small glass mortar and pestle.

The Patent Powder Insufflator (B., W. & Co.).

This instrument presents conspicuous advantages over all the old forms. It is neat, highly finished, and altogether the most satisfactory form yet offered for the application of dry powders by insufflation to the nasal and oral mucous surfaces and to sores, abscesses, &c., on the outer skin. The method of handling the insufflator is natural and easy, so that the operator is enabled both to hold the instrument and to bring about delivery of the powder with one hand, leaving the other hand free—a very appreciable advantage. Each instrument is provided with two forms of delivery tube, which are easily and quickly exchangeable.

Kepler Extract of Malt.

The many and varied conditions of disease in which the Kepler Extract of Malt as a food is indicated, and the benefits which are to be obtained from its use, sufficiently explain the wide popularity it has attained. It is manufactured from barley, and barley only, and our perfected machinery and long experience have enabled us to obtain a product exhibiting all the nutritive principles of the grain intact. The main advantages of a good Malt Extract are that it is highly nutritious, readily assimilated, and rich in that important factor, diastase, which converts starchy food into maltose and other saccharine and easily digested substances. It is consequently an effective aid to digestion, and can be tolerated by the stomach when Cod-Liver Oil alone would be out of the question. Freedom from coarse and irritating elements makes it the safest aliment in inflammatory conditions; it is an admirable demulcent in irritable states of the throat, and for the debilitated it is unrivalled as a food and digestive aid.

Kepler Solution of Cod-Liver Oil in Malt Extract.

The Kepler Solution was the first preparation which represented a rational method of administering Cod-Liver Oil. When an oil is given alone a considerable and prolonged effort is required before assimilation is possible, and in not a few instances it is voided unchanged. Moreover, the digestion is generally soon deranged. The two problems which remained unsolved for so many years were: (1) how to cover the unpleasant taste of the oil; (2) how to increase its assimilability? Pharmacists tried every possible means to attain these ends, but since they lost sight of the fact that Cod-Liver Oil is a food, and treated it as a drug, they met with only partial success. In emulsions the taste was somewhat masked, but it was found that in the stomach the oil globules coalesced, and unpleasant and nauseating eructations resulted. In the Kepler Solution the oil is actually dissolved in Extract of Malt. It is not emulsified, and no globules are visible under the microscope. No unpleasant effects are produced when it is taken into the stomach, but it passes through the pylorus unaffected and is readily absorbed by the lacteals.

Loretin.

This has been introduced as a substitute for Iodoform. Its action upon granulating and healing processes is a very favourable one, and its freedom from objectionable odour, and the complete absence of toxic effects, are other points of advantage.

Medicine Cases and Chests.

It may fairly be claimed that the "Tabloid" system of preparing drugs has effected a complete revolution in the fitting and equipment of Medicine Cases and Chests. Those supplied by us are eminently portable, practical, and useful, and bring about great saving of time, trouble, and space. By using "Tabloids" every drug or combination of drugs necessary is in the smallest possible bulk, and, besides this, may confidently be relied upon to produce in full measure the desired physiological effect.

Menthol Snuff.

Menthol possesses marked local anaesthetic, vascular, stimulant, and antiseptic properties. It produces prompt contraction of the vessels, and acts as a sedative to the nerve terminations. It may be effectively employed in the form of Snuff (Insufflatio Mentholatis Co., B., W. & Co.), which has the approval of the highest authorities.

Menthol Inhalers.

The Portable Oro-Nasal Menthol Inhaler is an excellent little instrument designed by Dr. Macnaughton Jones for the oral and nasal inhalation of menthol. The case contains, besides the Inhaler, a solution of Menthol in Paroleine and a camel-hair brush for applying the medicament direct to the mucous membranes of the naso-pharynx. The case complete may be conveniently carried in the pocket. The Menthol Pocket Inhaler consists of a simple glass tube filled with an absorbent medium. This is used in the same way as the "Pinol-Eucalyptia" Dry Inhaler.

Ophthalmic "Tabloids."

These are offered to supply the long felt want of a method of treating complaints and affections of the eye which is easy of application, certain in effect, and free from objections from the patient's point of view. The frequent instillation of a solution is very distressing, and is often even injurious, since it disturbs the absolute rest which is so important a consideration in the treatment; besides, only a small quantity is retained, and that quantity is so diluted by the lachrymal secretion as to become very partial in effect. Ophthalmic "Tabloids" obviate these effects and constitute a perfectly sterile and reliable mode of administering remedies to the eye. They are minute discs as thin as notepaper, extremely delicate in appearance, very soluble, and prepared with a perfectly innocuous and non-irritating basis. Each "Tabloid" holds a definite quantity of alkaloid. With two exceptions they are intended to be inserted within the conjunctival sac as they are, and when placed *in situ*, the eye being kept closed for a few minutes after insertion, they are immediately dissolved in the secretion and diffused over the surface of the eye.

Ophthalmic Pocket Cases.

This case measures $2\frac{3}{4}$ by $1\frac{3}{4}$ by $1\frac{1}{2}$ inches, and contains a medicine dropper, "Tabloid" holder, two camel-hair brushes, a small glass mortar and pestle, and nine tubes of Ophthalmic "Tabloids." Nothing so complete, practical, compact, and portable has hitherto been placed at the disposal of the medical profession in this direction. To practitioners in rural districts and other places remote from the chemist the Ophthalmic Case must necessarily become a *vade mecum*, since, while it is so small that it can be carried in the pocket almost without its presence being felt, it comprises a representative selection of those agents generally called for in ophthalmic practice, with the necessary apparatus for applying them.

"Paroleine."

This is a colourless, odourless, and tasteless fluid-fatty base, obtained by the fractional distillation of petroleum. It is a ready solvent for volatile hydrocarbons such as "Eucalyptia," Pinol, Menthol, Camphor, Thymol, &c. Salol is perfectly soluble in "Parolcine." Its freedom from taste and odour and its constant specific gravity adapt it for use with the B., W. & Co. Ointment Atomisers.

Phenosalyl.

This consists of a mixture of Carbolic, Salicylic, and Benzoic Acids, melted together and dissolved in Lactic Acid, and possesses antiseptic properties in a very high degree. The advantages of this substance over other antiseptics are as follows:—Easy solubility in water; no danger of toxic symptoms; a pleasant and non-persistent odour, which does not cling about the hand and clothes.

Photographic "Tabloids."

Being prepared by dry compression these "Tabloids" do not deteriorate, but retain in full activity the qualities of the various salts of which they are composed; and so in contradistinction to the oxidation, decomposition, and inconvenience of transport which are characteristic of prepared solutions, we have uniformity, reliability, and portability. The success which has attended the use of Photographic "Tabloids" proves that they save time and material, and prevent disappointment. They are absolutely indispensable to the amateur, either at home or on tour. They will be found accurate, energetic, lasting, and reliable. Full list on application.

"Soloids."

Under this distinctive and registered name we issue certain powerful and toxic agents for the instant production of strongly antiseptic and bactericide solutions for use in surgical work. "Soloids" L.G.B. are intended for use for the disinfecting and sterilisation of excreta and other dejecta from patients during epidemics. "Soloids" Iodic Hydarg. are of two strengths, containing respectively 1 grain and 8·75 grains of this agent. One "Soloid" of the former strength dissolved in a pint of water makes a solution of 1 in 4,000 approximately, while one "Soloid" of the latter strength dissolved in the same quantity of water will give a solution 1 in 1,000. The Mercuric Chloride "Soloids" are also intended to give a solution of the one per mille strength, and are specially coloured to prevent errors. It should be mentioned, perhaps, that all "Soloids" are of a shape totally distinct from that of "Tabloids" (a "Tabloid" , a "Soloid" ) so as to avoid every chance of mistake in handling them.

Strophanthus Tincture and "Tabloids."

The reputation of this drug as an efficient alternate with Digitalis is now well established, and it has further special properties of its own. Unlike Digitalis, it does not upset the stomach, nor does it act so much upon the arterioles. The dose advised is from 2 to 5 minims of the tincture; larger quantities are liable to cause cardiac distress. The best form of administration is in "Tabloids," since in these the drug is proof against deterioration. The *Lancet* says:—"It is one of the most reliable cardiac tonics we possess."

"Tabloids" of Compressed Drugs.

The portability, ready solubility, prompt and unimpeded action, absolute purity, moderate cost, convenient form, and accuracy in dosage of "Tabloids," have received testimony from the medical profession in all parts of the world, as well as from explorers, travellers, &c., who have conveyed them, under the most trying conditions, through every variety of climate, and have brought back to us such as they have not required, in perfect condition. The fact that each "Tabloid" contains an exact quantity of the drug, thus doing away with weighing and measurement and the risk of error by overdose which accompanies these operations, must appeal to the doctor who is obliged to leave his patient to the care of inexperienced and untrained persons, who, though they be attentive nurses enough, are liable to be much confused in any attempt to weigh or measure.

"Tabloids" of Compressed Tea.

A scientific application of the methods of the great tea-using nations of the East. It is the custom in China and Japan to compress Tea into blocks, for in the process of compression the Tea is broken up into minute particles, and when boiling water is poured upon these blocks they fall at once, and the water comes into immediate contact with every portion of the Tea-leaf. The Tea "Tabloids" go a step further. Before compression, the mid-rib and other useless and injurious portions of the leaf are carefully removed. This accounts for the much smaller weight of Tea "Tabloids" than of a quantity of loose Tea possessing the same amount of virtue, and the removal of waste matter and compression combined make the saving of space nothing short of enormous. Tea "Tabloids" are specially adapted for travellers, although for general home use they offer equally great and peculiar advantages — *e.g.*, convenience, avoidance of waste, &c.

Terebene.

Terebene has been found of the most decided utility in the treatment of many bronchial troubles. Pure Terebene possesses the same stimulating expectorant properties as a large group of terebinthlates; it is, however, much more suitable for inhalation purposes than the latter, as all the resinous material has been eliminated in the process of manufacture. The drug tends to liquefy the sputum and facilitate expectoration; these qualities are enhanced by its inherent antiseptic properties when employed as an inhalant in the treatment of chronic pulmonary affections, as it exerts its antiseptic influence at the seat of infection. Terebene is more generally employed as an inhalant. If the vapour is to be inhaled dry, the Terebene may be used with a B., W. & Co. "Pinol-Eucalyptia" Dry Inhaler or a Menthol Pocket Inhaler.

Vaporoles.

These are elegant little silken sacks enclosing very friable glass capsules, each of which contains sufficient for one inhalation of medicaments commonly employed for the purpose.

Saccharin and Saccharin "Tabloids."

Saccharin is sent out in the form of Soluble Saccharin and Saccharin "Tabloids," both of which dissolve easily and freely in water and possess an exquisitely delicate and pleasant sweetening flavour.

They thoroughly satisfy the taste for sweet things, and yet are in no way allied to sugars or starchy foods. While on the one hand they are not a nutriment, on the other hand they are not poisonous. They are as innocuous and palatable as their sweetening power is great and complete. When taken into the system Saccharin is not assimilated, and in thirty minutes some of it appears in the urine unchanged.

The "Tabloids" are portable, and of the greatest convenience to those away from home during the day. One or two tiny

"Tabloids" of Saccharin added to a cup of tea, coffee, or cocoa—in lieu of as many lumps of sugar—impart to it a sweet and delicate flavour.

"Hazelne" Cream.

In "Hazelne" Cream the anodyne and styptic properties of "Hazelne" are associated with the emollient qualities of "Lanoline," a union that has shown itself to be singularly happy. "Hazelne" Cream is recognised as a very valuable and effective adjunct, and is now largely prescribed by the medical profession. It keeps excellently well, both constituents contributing to this end, since "Lanoline," on account of its chemical character, cannot become rancid or offensive. This preparation is absolutely free from the disadvantages attendant upon the use of cold creams and other toilet preparations in vogue, the majority of which have as bases ordinary animal fats, so prone to become rancid, and, moreover, frequently display a strong alkaline reaction. It is to alkaline matter that are to be attributed the injurious effects which cold creams and salves often have upon tender and sensitive skins.

"Hazelne" Suppositories.

These are hollow cones of Cacao Butter filled with simple "Hazelne." They afford a ready and convenient method for the application of "Hazelne" either to internal piles or to the lining membrane of the vagina.

The cone itself melts readily at blood temperature, and the "Hazelne" is thus brought into intimate contact with the surfaces affected.

"Hazelne" Co. uppositories.

These differ from the ordinary "Hazelne" Suppositories in that they contain, in addition, Hamamelidin and Oxide of Zinc. They have the same basis as the simple "Hazelne" Suppositories and the same melting-point. Hamamelidin, it should be remembered, causes discolouration of linen.

"Hazelne" Snow.

An elegant toilet preparation containing 50 per cent. of "Hazelne," and exhibiting in the form of a cream the valuable haemostatic, anodyne, and astringent properties of that well-known drug, without any trace of greasiness. It is rapidly absorbed by the skin, and will not soil the most delicate linen.

Zyminised Nutrient Suppositories.

It is manifest that the assimilation of a food must be easiest when that food is *digested beforehand*. The Zyminised Suppositories contain only peptonised (predigested) concentrated meat or milk and digested oil, and it has been amply demonstrated that they may be successfully employed to sustain life in infants and adults whenever, for any reason, feeding by the stomach is impossible or undesirable. In fevers, consumption, gastric, oesophageal and intestinal diseases, peritonitis, after surgical operations, in "typhoid states" of disease, and in all wasting affections of children and infants, they are capable of sustaining life for months. They are retained almost without their presence being felt, and will be found of desirable consistence and perfect preservability.

BURROUGHS, WELLCOME & CO., Snow Hill Buildings, LONDON, E.C.

Announcement.

Referring to the death of our late Senior Partner, Mr. S. M. BURROUGHS
 We hereby notify that the business of the firm will be continued as heretofore, and will be under the personal direction of Mr. HENRY S. WELLCOME. The firm name will remain unchanged.

We have retained the services of Mr. R. CLAY SUDLOW, General Manager; Mr. A. SEARL, F.C.S., Manager of the Works; Mr. W. H. KIRBY, Chief Accountant and Assistant General Manager; Mr. W. LLOYD WILLIAMS, F.C.S., Assistant Manager of the Works, and the other members of the General Staff. Mr. SUDLOW and Mr. KIRBY are, as heretofore, authorised to sign for the firm.

Very respectfully,

BURROUGHS, WELLCOME & Co.

Mr. HENRY S. WELLCOME will sign as Principal:



Mr. R. CLAY SUDLOW will sign:



By Power
of Attorney

Mr. W. H. KIRBY will sign:



SNOW HILL BUILDINGS, LONDON, E.C.

March 21st, 1895.

FURTHER REDUCTION IN PRICES OF "VASELINE."

"VASELINE" (Pure). Card Cases.

No. 1 size, 3/0½; No. 2, 6/1; ½-lb. Tins, 7/-; 1-lb. Tins, 12/- per doz.

"VASELINE," Blue Seal.

No. 1 size, 21/-, and No. 2 size, 42/- per gross.

"VASELINE" Cold Cream.

No. 1 size, 4/9; No. 2, 7/-; No. 3, 12/-; No. 4, 21/- per doz.

"VASELINE" Camphor Ice.

Tins or Tubes, 3/0½ per doz.

POMADE "VASELINE."

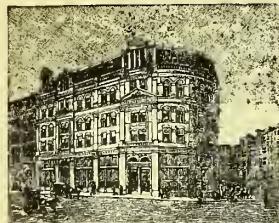
No. 1 size, 3/11, and No. 2 size, 7/10 per doz.

"VASELINE" Toilet Soaps.

Unscented, Perfumed, or Tar, 20/6 per gross.

CHESEBROUGH MANUFACTURING CO., 42 Holborn Viaduct, LONDON, E.C.
PROPRIETORS AND SOLE MAKERS OF "VASELINE."

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COLONIAL ISSUE.

THE publisher of THE CHEMIST AND DRUGGIST propose on April 20 to specially address all business houses connected with the drug-trade in Australasia, India, Ceylon, Straits Settlements, South Africa, West Indies, China, Japan, and many other places abroad. With revised registers to go upon, and a good number of the journal, the publisher hopes to wake up many to the importance of business with Britain. Doubtless there are many firms who would like to participate. If so, they should address the publisher.

TO BUYERS EVERYWHERE.

A LARGE proportion of the business announcements in this issue have been specially drawn up with the object of appealing to

MERCHANT SHIPPERS.

We ask those in that class who get this issue to examine the advertisements carefully, and to fill from them any indents which they have at present in hand, afterwards filing the number for future reference. There are many advantages in buying from CHEMIST AND DRUGGIST announcements, but these three are chiefly notable—(1) the best goods, (2) the keenest prices, and (3) the promptest service—all of which are of the highest importance to those who execute indents. They also are to all

RETAILERS AND WHOLESALERS.

to whom we commend a thorough examination of every page in this issue. There are many new things and new advertisements in it—THE CHEMIST AND DRUGGIST would not be itself were that not so—and on behalf of the advertisers we commend these to the attention of buyers for immediate order or a place in the want-book.

Summary.

THE Slow Student is the one satirised on p. 422.

THERE are some excellent formulæ in our correspondence (p. 438).

SEVERAL musical festivals are reported in this issue, the Kepler Club on p. 400, and association concerts on p. 405.

WE give another selection of prescriptions for counter-practice selected from many sent in in competition (p. 430).

WE give the results of the postcard solutions of the hieroglyphic puzzles which we printed in our Winter Issue (p. 427).

WE mention, under Trade Notes, that the firm of Burroughs, Wellcome & Co. is to be continued under the old name (p. 410).

THE cocaine market is somewhat critical just now, so we comment on the present, past, and probable future of the alkaloid (p. 421).

M. BERTHELOT has succeeded in getting argon to combine with the vapour of benzene, when its behaviour is like nitrogen (p. 420).

MR. LEDGER, the cinchona-pioneer, who was supposed to be dead, sends us from New South Wales a letter on inga-flowers (p. 421 and p. 436).

OUR Town Traveller tells about some new things in photography, essential oils, glassware, and sponges, which he has picked up during his perambulations (p. 407).

AN interesting paper on co-operation in plants (symbiosis) has been communicated by Mr. Clayton, of Manchester, to the local Pharmaceutical Association (p. 405).

OUR obituary column includes, amongst others, the names of Messrs. Thomas Clark and Charles Heimsoth, well known in Mincing Lane circles, and Mr. Seath a prominent Scotch pharmacist (p. 410).

MR. WILLSON, the discoverer of the process for manufacturing calcium carbide on the large scale, has told the New York Section of the Society of Chemical Industry all about acetylene gas (p. 405).

THIS week our trade reports cover the London cinchona and drug sales held on Tuesday and Wednesday, as well as reports on the chemical and opium markets, and a cablegram from New York (pp. 431-5).

PROSPERITY and failure are the dominant notes under our company news. Pears, Spratts, and the United Alkali pay good dividends, while some chemical and drug companies are being wound up (p. 428).

DURING the hearing of an adulteration case a solicitor questioned if dividing a dozen seldiliz powders into three lots of four each was a fulfilment of the law. The Magistrate's Clerk thought it was (p. 411).

MR. D. B. DOTT continues the constructive criticism of the British Pharmacopoeia, dealing with alkaloids and active principles. Mr. Dott is inclined to think that the B.P. is, if anything, ahead of pharmacologists in the recognition of these bodies (p. 425).

IN connection with Pharmacopoeia revision we comment on the new Supplements to the French and German Pharmacopoeias (p. 419), which show some special characteristics. Mr. William Martindale spoke on the B.P. at a West London meeting on Wednesday (p. 405).

A GROCER gave a Food and Drugs Act inspector all the ginger he had for analysis. When it was found to be poor in quality, and prosecution followed, his solicitor contended that the ginger was not a sample. The Magistrates accordingly dismissed the case (p. 411).

MR. A. C. MEYJES has lectured to the Chemists' Assistants Association on the "Pharmacist in Fiction." He shows by reference to English, French, and German novels that authors are not so familiar with pharmacy as to make their thoughts thereon historically reliable (pp. 413-417).



The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

British Optical Association.

This Association has been founded to protect the interests of opticians, Mr. John Browning being the President. On and after June 1 next entrance will be by examination only.

Carbolic poisonings.

Lucy Ellen Wood, the wife of Thomas Sidney Wood, an oil-merchant, residing at Lower Tulse Hill, Brixton, committed suicide by drinking carbolic acid on Thursday morning last week. She had suffered from influenza and subsequent depression of spirits.

At Northfleet, last week, William Parsons (21) committed suicide by taking carbolic acid. He was found in the back yard with his face terribly burnt and his hands drawn up as if he had died in terrible agony. Dr. Flood said the sufferings of deceased must have been intense.

On Thursday, March 14, the Liverpool Coroner held an inquest regarding the death of Thomas Connor (45), a marine fireman. The evidence showed that Connor had been drinking, and that twice during the week before his death he had bought carbolic acid, which was afterwards taken from him. On the Wednesday evening he had some of the acid again and took a wineglassful of it, dying from its effects.

A middle-aged couple, Mr. and Mrs. Fluker, residing in Kenton Street, St. Pancras, were found dead on Thursday, March 14, having, it was reported, drunk carbolic acid. The man was suffering from rapid phthisis, and the couple were in great want. The evidence at the inquest, held on Monday, showed that Mrs. Fluker died by carbolic-poisoning, but it was not conclusive in regard to the husband.

Killed with Maggot-water.

An inquest held at Cleobury Mortimer regarding the death of a labourer showed that on February 27, during a debauch, he drank maggot-water, a preparation of corrosive sublimate. No doctor was called in until March 8, and he died two days later from inflammation of the stomach.

Arsenic by the Barrowful.

A man has got a month's hard labour at Tynro for stealing arsenic. While a policeman was passing a disused arsenic-works at Bissoe, owned by Messrs. Field & Co., on Wednesday morning last week, he saw the man taking away some arsenic in a barrow. Inquiry showed that he had no authority for doing this, and that he had been selling lately small quantities of arsenic mixed with rubbish, which he said he had dug out from some mine burrows.

Brighton Chemists' Ball.

The fifth ball promoted by the Junior Association of Pharmacy was held at the Royal Pavilion, Brighton, on Friday evening, March 15, Mr. Pullen's band supplying the music. The North Drawing room was reserved for supper and light refreshments, and the Corridor was turned into a pleasant lounge and promenade. The arrangements were excellent, and the function proved to be one of the pleasantest held in connection with the Association.

An Unqualified Assistant Prescribes.

At an inquest held at Long Eaton on Wednesday, March 14, regarding the death of Albert Edward Lowe (19), it transpired that deceased had been playing football on the Saturday previous, and he felt unwell on the Sunday. As he

was still ill on Monday, his mother sent to the shop of Mr. Start, chemist and druggist, High Street, for some medicine, which was supplied by Mr. Herbert Swift, the assistant. In the witness-box Mr. Swift stated that Mrs. Lowe asked for something to check pain in the head and sickness. He gave her a mixture consisting of —

| | | | |
|-------------------------|----|----|-----------|
| Bicarbonate of potash | .. | .. | 1 drachm. |
| Spirit of sal volatile | .. | .. | 2 " |
| Dilute hydrocyanic acid | .. | .. | 20 min. |
| Spirit of chloroform | .. | .. | 1½ drachm |
| Water to | .. | .. | 6 oz. |

One tablespoonful three times a day.

Swift added that he had been six years in the business, and had passed the Preliminary examination. Dr. Lyster was called in early on Tuesday morning, but the young man died soon after he arrived. At the inquest Dr. Lyster stated that death was due to meningitis, through natural causes, probably. The medicine supplied by Swift he did not approve of, but he did not say it had done harm. The jury, while returning a verdict of death from natural causes, cautioned Mr. Swift against using poisons, as he had done. It was a custom that must not be continued by him until he was fully qualified.

The "Kepler" Musical Society.

The "Kepler" Musical Society is one of the many social offshoots of the firm of Burroughs, Wellcome & Co., and is presided over by Mr. R. C. Sudlow, whose genial presence filled the chair at their "smoker" on Monday evening last, at the Masons' Hall Tavern, E.C. The programme provided by the Hon. Secretary and Vice-Chairman (Mr. W. D. Astill) was lengthy and well selected, the talent, amateur and professional alike, providing excellent entertainment. The evening was convivial, and the drowsy echoes of the adjacent Guildhall must have been roused more than once to an enthusiastic ring by the hoisterous choruses of the jovial "tabloids." Messrs. G. H. Clark and A. Alley opened the proceedings with a piano-forte duet. The other instrumentalists were Herr Schulz and son, who gave charming items on the zither and philomèle (a species of violin), and Mr. G. W. Marshall, whose original selection on what is commonly called the "mouth-organ" was decidedly popular. The humorists were in strong force, and Mr. Lowrie's "It ain't all lavender," Mr. Burgin's "Hypochondriac" Mr. Rayner's "Oompah" Mr. E. C. Clark's "If it wasn't for the 'ousies in between," and the humorous numbers by Mr. Ulyett provoked loud choruses and much mirth. The melodious duet by Messrs. R. B. and H. H. Turner was a thing to remember, and Mr. Eric Dane's "My Queen" was well sung. Mr. Martin Palmer's tenor songs also found much favour with the audience. The names of Mr. Kirby, Mr. G. Kendall, Mr. Brunsell, Mr. H. C. Bennett, Mr. T. O. Heale, and Mr. Waterston, whose contributions deserve fuller mention than we can give, may be added to a programme replete with good things. The Chairman during the evening made a sympathetic reference to the memory of the late Mr. S. M. Burroughs.

A Chemist Accused of Theft.

Alfred Bellamy, said to be a chemist, and his wife are in trouble, accused by the police of stealing a clock, an overcoat, two salvers, and other articles of silver, value 40s. the property of Mr. J. B. Martin, a banker, 17 Hyde Park Gate, Kensington, where Mrs. Bellamy was cook. Both say they do not understand English, but Bellamy can speak it well enough. Sergeant Martin informed the Magistrate at the West London Police Court last Saturday, that there were several other cases of stealing plate in various parts of the Metropolis, one being at Croydon. It was the practice for the wife to obtain situations by means of false characters written by her husband, and then abscond with the stolen property. Prisoners had been charged at that court before, but the woman was acquitted. Mr. Curtis Bennett remanded both prisoners.

Death for a Penny.

At Hessle, near Hull, on Saturday last, Mr. C. W. L. Colby, Deputy Coroner, held an inquest on Clara Ann Maw, single, aged 37 years, who committed suicide the day previous. From the evidence it appeared that deceased bought a pennyworth of Battle's vermin-killer, from Mr. F. S. Temple, chemist, and swallowed it.

A Dispenser Poisoned.

Richard Philp (43), the dispenser of the Leamington Provident Dispensary, died last Saturday morning from an overdose of laudanum, which he had been in the habit of taking for kidney-disease. The poor fellow knew he was dying, and was quite anxious about how the dispensing would be done without him.

Contracts.

Mr. Morris, chemist and druggist, Gravesend, has been appointed a tradesman to the Gravesend Town Council.

At a special meeting of the Guardians of the Strand Union, held on March 14, for the purpose of receiving tenders for supplies to the several establishments under their control and management, tenders for the supply of drugs were received from Messrs. Hodgkinson, Prestons & King, Bishopsgate Street, and Messrs. Corbyn, Stacey & Co., Holborn. The tender of the former firm was 17½ per cent. below the scheduled price, and that of the latter 20 per cent. It was proposed and seconded that the tender of Messrs. Hodgkinson, Prestons & King be accepted. Mrs. Evans thought, before they accepted the tender, they ought to inquire of the firm why they allowed 25 per cent. off the scheduled prices on goods supplied to the Central London Sick Asylum, Cleveland Street, and only allowed 17½ per cent. to that Board. Mr. W. Dart explained that there were certain drugs on which a larger percentage could be allowed than on others, and he dared say that it was through large quantities of these being required at the Central London Sick Asylum that the firm was able to give the large percentage alluded to by Mrs. Evans. The tender of Messrs. Hodgkinson, Prestons & King was eventually accepted. The contract applies to the supplies for the receiving establishment in Bear Yard, Drury Lane, the Workhouse Infirmary at Edmonton, Cleveland Street Asylum, and the other institutions chargeable to and maintained by the Strand Union.

At a special meeting of the Board of Works for the St. Giles-in-the-Fields District at their offices in High Holborn, on Tuesday, tenders for the supply of disinfectants were received from seven firms; but, after a long discussion, the contract was given to Adcock, Easton & Co., Charteris Works, Charteris Road, Finsbury Park, on the ground of the excellent quality of their articles supplied, and the satisfaction given thereby to the Medical Officer of Health, the surveyor and sanitary officers of the Board during the last year, when the same firm had the contract. In reply to Mr. W. Blott, it was stated that the chief partner of McDougall Brothers, Maik Lane, who had sent in a tender, was the well-known member of the London County Council; but this was strenuously denied by Messrs. Alfred and Martin Deed, who, as personal friends of Mr. J. McDougall, could testify that that gentleman had long since retired from the firm, and at present took no active part in its management.

Weights and Measures.

Last week the Select Committee devoted its sitting to an examination of Mr. Siemens, the engineer. This week Mr. Alfred Spencer, chief officer of the Public Control Committee of the London County Council, was called. He stated that London is divided into 13 districts, each with a chief inspector and assistants, and there are also a number of verification officers. There are in London 55,000 premises in which weights and measures are used in trade. Of these 3,000 are wholesale and 52,000 retail shops. In 6,000 premises legal weighing-machines are in use. The total number of weights in use in London is 1,280,165. As to the difficulties of a change of system, the County Council had made inquiries, and of the probable cost of establishing new weights and measures in each of 11 of the leading trades. The average cost to the retail trader, using 9 weights and 11 measures, would be 17s. 6d., or about 80,000/- for London. As far as the retail trader is concerned, no difficulty was felt under the present system, and no complaints are made. The provision of local standards throughout the country on the new system would take two or three years. A reasonable period should be allowed before the new system came into use, and a further period before it was made compulsory. If school-children were more thoroughly taught the metric system it would be a great assistance to any change.

Shopkeepers should be obliged to exhibit an explanation of the change and a table of equivalents. The Council was of opinion that the prohibition of the use of metric weights and measures for foreign trade was unnecessary.

Prussic-acid Poisoning.

An inquest was held at Twickenham last week regarding the death of Stephen Garner, who had been book-keeper to Mr. William James Anson, M.R.C.S., but had lately been discharged. Whether he secured some prussic acid before he left, or got it elsewhere, was not made clear by the evidence; but it was proved that death was caused by an ounce of Scheele's acid.

A Pension for the Holborn Dispenser.

At the meeting of the Holborn Board of Guardians, on Wednesday, the Finance Committee recommended that Mr. Pattinson, the retiring dispenser at the Highgate Infirmary, be given a superannuation of 26/- per annum. Mr. Miller (Chairman of the Infirmary Committee) said he should oppose this. He had no idea, when the matter was mooted, that the Board were going to pension Mr. Pattinson. He had only been with them twelve years, and this would be an unjust tax upon the ratepayers. He (the speaker) did not mind giving him a gratuity, but he would not consent to this superannuation. The Chairman said the matter would have to be discussed at a future meeting, and, if the Guardians adopted it, the Local Government Board would have to be asked to sanction it. Mr. Miller said he would reserve what further he had to say on the matter until it came on for discussion.

Sudden Death of a Chemist's Assistant.

On Tuesday afternoon, a party of students from the Sheffield School of Pharmacy were strolling through the wood at Handsworth, when one of their number, Arthur Theodore Watson, aged 22, a chemist's assistant, threw up his arms and was dead almost instantly. Alarmed by the tragic occurrence, and hoping for the best, the young fellow's companions sent for the nearest doctor; but Dr. Mason, of Handsworth, a village a mile or two from Sheffield, on arriving in the wood pronounced life extinct. It was a sad ending to what had been an enjoyable, instructive walk, and it was with heavy hearts that the deceased's friends came back to the city. Watson, whose constitution was weak, knew well that his life was precarious. About twelve months ago he was treated in the hospital at Leicester for heart-disease. Subsequently other medical men examined him, and from them all he learned the same discouraging truth—that he was liable to drop down dead any moment. The deceased's parents live at Ripon.

Drugging Children.

The Sheffield Coroner, Mr. D. Wightman, strongly condemned the use of "infants' mixtures" at an inquest he held on Wednesday, touching the death of a five-months-old baby, who was dosed every day with infants' mixture, and who died, it is thought, in convulsions. The stuff given to their little ones by so many mothers undoubtedly contained, said the Coroner, some kind of opiate, otherwise it would be no use giving it to them. If it killed the children it was a happy release for them, and if it did not it ruined their constitutions for life. Instead of growing up healthy men and women, they were physically ruined by an abominable criminal habit.

Herbalist's Treatment.

The Birkenhead Coroner held an inquest at the Workhouse, Traumere, on Monday, regarding the death of Catherine Connolly (24). The evidence showed that deceased was pained in her head and limbs, and a herbalist in Exmouth Street treated her with medicine, poultices, &c., which did no good. Dr. Brewer was called in, but the woman's people afterwards sought the herbalist's advice again. The latter said he had gone through the same degrees as Dr. Brewer, and was a better doctor. On Thursday he administered a powder which sent deceased to sleep for about an hour. When she awoke she was delirious, and the next day she was removed to the workhouse infirmary, where she died from pneumonia. Dr. Lambert said he would bring the matter under the notice of the Medical Society. A verdict of "Death from natural causes" was returned.



Irish News

April Examinations.

The Pharmaceutical Assistants examination will take place on Monday, April 8; the Registered Druggist examination (at both Dublin and Belfast, if a sufficient number apply) on Tuesday, April 9; and the Pharmaceutical Licence examinations on Wednesday, April 10, and following days. The last days for lodging applications with the Registrar will be Monday, Tuesday, and Wednesday, March 25, 26, 27, respectively.

More Light for Ireland.

Messrs. Hugh Moore & Co., chemists and druggists, Dublin, received last week from New York a cargo of close upon 13,000 barrels of petroleum.

Assistants Wanted.

Qualified assistants are at a premium in Dublin. The daily papers contain numerous "wants" by employers, and few from those wanting situations. Moreover, a good number of assistants are imported, and the exports, except to places abroad, are unheard of.

Satisfactory.

Messrs. Shanks & Co., mineral-water manufacturers, Dublin, held their statutory meeting a few days ago. Mr. Shanks, managing director, presided, and gave an encouraging account of the progress the firm had made since their establishment as a limited liability company.

Business Changes.

Mr. T. Byrne, chemist, Kevin Street, Dublin, has disposed of his branch establishment at Nassau Street.

Mr. Edmondson, L.P.S.I., has put a large sky-sign on the top of his pharmacy in Rathmines.

An "evening" pharmacy has opened lately on the road leading to the Phoenix Park, Dublin.

Mr. James D. Carey, L.P.S.I., has recently been appointed manager of the Medical Hall, Oldcastle.

Mr. Alex. Bryans, registered druggist, has opened a shop in Agnes Street, Belfast.

A new drug-store has been opened in Irvinestown, co. Fermanagh, by M. Crea & Co.; the establishment was formerly occupied by an apothecary.

In a comparatively small area of Dublin there are no fewer than five drug-establishments either in the market or vacant, their former owners having gone to fresh fields and pastures new.

The Harcourt Pharmacy and Medical Hall, Dublin, until lately owned by Mr. Richard D. Atkinson, L.P.S.I., is announced to be sold by public auction as a going concern on April 9.

Two new pharmacies are to be added to the number already in Belfast—one in the centre of the city, and one in the Crumlin Road district, as also a drug-store in the York Road district.

Tel-el-Amarna Tablets.

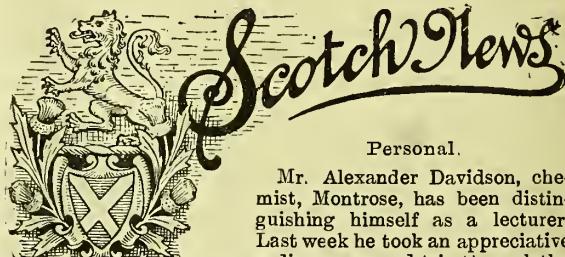
Lecturing last week at the Royal Dublin Society on the "Story of Tel-el-Amarna," a romance of Egyptian excavation, Mr. Lawrence E. Steele, M.A., said that the name of Tel-el-Amarna even yet puzzled a good many people. Some were under the impression that it was the name of a new Egyptian king unearthed by the explorers, and when references began to be made to the now-famous clay tablets of Tel el-Amarna, a wholesale druggist received a large order from an old and respectable customer, who concluded that they were a new form of voice-zenge. Tel-el-Amarna is really the name of a modern Arab village near the site of an old Egyptian city where the tablets were excavated.

Drug-contracts.

Tenders are invited by the following:—Ballymoney union and five dispensaries, March 25; Ballymena workhouse and three dispensaries, March 23; Kilmacthomas union and several outlying districts, March 26; Limavady union and several dispensaries, March 25; Midleton workhouse and several dispensaries, March 30; Skibbereen union, March 23; and Tobercurry infirmary and three dispensaries, March 25.

An Unregistered Dentist Fined.

At the South Dublin Police Court on Saturday last, Mr. Swift heard a summons, at the suit of the British Dental Association, against Mr. Louis Levey, of 132 Stephen's Green, the complaint being that he, not being registered under the Dentist Act of 1878, used the title dentist. The defence was that Mr. Levey was entitled to be registered as being in practice before the Act, and a deed of partnership between him and Mr. A. J. Bradshaw, dated October 21, 1880, was produced. It was further stated in evidence that Mr. Levey is now in partnership with a Mr. Thomas Hindes, practising as American dentists. Mr. Swift, in deciding for the plaintiffs, said for years Mr. Levey had been describing himself, in legal documents and otherwise, as a dentist, thereby contravening the provisions of the Act, as he was not registered. As it was the first case of the kind in Ireland, he did not want to be too hard; but at the same time, remembering that it might be difficult to find out cases of this sort, he did not think in the interests of the public a smaller penalty than 5*l.* should be imposed, and 2*l.* 2*s.* costs.



Scotch News

Personal.

Mr. Alexander Davidson, chemist, Montrose, has been distinguishing himself as a lecturer. Last week he took an appreciative audience a round trip through the West of Scotland, Inverness-shire and Ross-shire, the magic-lantern supplying the local colouring.

During the recent snow-block in Caithness, Mr. D. D. Cairnie, chemist, Thurso, and a friend walked twelve miles to the scene of the railway block, and we are indebted to Mr. Cairnie for two photos of the scene. In one picture the funnels of the engines are seen peeping above the snow surface, but in some places the snow towered ten feet above the funnel of the engine. They have had seven blocks like that in Caithness this winter.

Another Window Smash.

Mr. Forgie, chemist and druggist, High Street, Falkirk, is the latest victim. Last week a man deliberately took off his boot and smashed one of Mr. Forgie's plate-glass windows. The man was promptly arrested, and on Monday was fined 0*s.*, with the option of ten days in prison.

Pharmacopœia Revision.

Edinburgh interest in Pharmacopœia revision is, on the surface at least, perhaps more intense than in any other town in the kingdom. The meeting which is to be held at York Place this (Friday) evening is expected to bring out quite a flood of constructive material, and if each one arranged for says his say, it may be Saturday morning, before the meeting adjourns. Nine papers have been secured. The Royal College of Surgeons has reverted to the old arrangement which it had with pharmacists in regard to the revision of the Pharmacopœia. When the first one was being compiled, Baillie J. F. Macfarlan, Mr. Duncan (of Duncan & Flockhart), and Mr. James Robertson assisted them in the pharmaceutical part. The College has now arranged with Mr. J. Laidlaw Ewing, Mr. Peter Boa, and Mr. George Lunan to do the same thing. Mr. Boa and Mr. Lunan were at one time assistants with James Robertson.

& Co., so that with Mr. Ewing, a partner in the firm which Mr. Duncan founded, they form a fairly direct connecting-link with the past.

Are the Liable to Stamp-duty?

A Glasgow confectioner thus speaks about his cough-drops in an evening newspaper:—

USE my Cough, Bronchitis, and Sore Throat Drops while the flame still burns on the altar of the heart, and hope will again shine on the dark side of your soul. Like the bright sun, they warm the soil of desponding hearts, and cause the flowers of joy to blossom and bloom on the bosom's barren desert. My Drops cause the dew of delight to glisten in the eye, and are like the dewdrops that clustered on the flowers of Eden ere the angels wept in sorrow over the fate of fallen man. 3*d.* per quarter-pound. One pound sent to any address on receipt of 1*s. 3d.*

The fall from the fine poetic style to the prosaic language of the penultimate sentence is a beautiful example of the cough-drop.

French News.

FACSIMILES OF PRESCRIPTIONS—At the last meeting of the Paris Society of Pharmacy, M. Guichard thought it worth while to mention that photography and gelatino-bromide paper are excellent for reproducing physicians' prescriptions.

THE STERILISATION OF MILK.—There is more on this subject to report. Dr. Paul Cazeneuve, of Lyons, stated at the last meeting of the Paris Academy of Medicine that he has found a means of preparing sterilised milk by which it can be kept for more than two months, by prolonged boiling *in vacuo*, but with a special apparatus.

THE CO-OPERATIVE IODIDE-MAKERS have not yet succeeded in commencing operations, and the date of closing the subscription-list has been postponed until March 31. The reason given is that the council of the new Society is desirous of offering the advantages of co-operation to the largest number of pharmacists possible. It must be supposed, however, that the necessary capital has not yet been subscribed, and the iodine syndicate has done nothing to facilitate that end.

THE SUPERIOR SCHOOL OF PHARMACY.—The last law concerning military service in France, which allows a reduced term to certain classes of students, seems to have had the effect of producing an overcrowding in the Paris School of Pharmacy. Last year there were 275 first-year pupils at the school, and although this session they are reduced to 253, the laboratories are found to be too small, having been arranged for only 140 to 150 students. As a consequence, supplementary funds have had to be obtained in order that each pupil can have practical work in the laboratories three times a week. Increased space is, however, found to be a matter of urgent necessity for the second and third year students, as they have to work in a too confined area.

ILLEGAL PRACTICE OF PHARMACY.—The Syndical Chamber of Pharmacists of the Seine recently appeared as prosecutor in a case of illegal practice of pharmacy. The product sold is known as "chlorol marye," and the defendants, MM. Sebon and Solomon, maintained that it is purely a hygienic product, and as such they could not be guilty of an offence against the pharmacy laws. The prosecution maintained, however, that the circular and labels accompanying the preparation gave it, in certain cases at least, a positive medicinal character. The Judge named three leading experts, Dr. Brouardel and MM. Lhôte and Angier, to decide this point. These gentlemen came to the conclusion that, although under certain conditions the "chlorol marye" was retailed as a disinfectant, it also, in other respects, constituted a medicament, being sold for curing cuts, burns, &c., also as an antiseptic. It was also proved that corrosive sublimate is the basis of chlorol marye. Judgment has been given against the defendants, and they were ordered to pay a fine of 50*f.* each, and 100*f.* damages to the Syndical Chamber, and costs.

Foreign and Colonial News.

THE DIPHTHERIA-SERUM IN NORWAY.—The Norwegian Government have decided that the preparation of diphtheria-serum in that country shall be a State monopoly.

A NEW PHOSPHORUS-DUTY IN RUSSIA.—They have just placed a new duty upon phosphorus in Russia. This has so upset Mr. Lulkimacher, a large match-manufacturer of Odessa, that he has burnt the whole of his stock (31,000,000 of boxes) rather than pay the duty.

SODIUM-EXPLOSION IN A CHEMICAL-FACTORY.—Dr. Grünewald, engaged in the laboratory of Boehringer & Sons' chemical-works in Mannheim, has been severely injured in the face, as a result of the explosion of a glass vessel of sodium, with which he was working.

AN ACETYLENE-GASWORKS SYNDICATE.—A syndicate has been formed in Germany for the exploitation of Bullier's and Willson's acetylene gas patents in countries outside Germany. The syndicate consists of the firm of Siemens & Halske, and several other houses connected with the electrical business.

A SEMI-TRANSPARENT MIRROR.—Herr Alfred Roos, of Holstadt, Germany, has invented a mirror which is transparent from the one side. Placed in the wall between the back room and a shop the occupant of the first-named apartment can see into the shop, while to a person in the shop the surface of the glass appears as a mirror.

A PHARMACY BURNED DOWN.—The disastrous fire at Port of Spain on March 4 destroyed, amongst about two score of shops, Mr. W. C. Ross's pharmacy in Frederick Street. Mr. Ross had his stock insured in the Northern and Royal for 3,000*l.* each, and his furniture in the Western for 32,500*l.* The building he occupied was insured in the Guardian for 3,500*l.* and Northern for 500*l.* These sums are expected to cover his loss.

A WARSAW CO-OPERATIVE DRUG-BUSINESS.—Twenty-five Warsaw pharmacists, says the *Pharm. Zeitschrift für Russland*, have formed an association for the establishment of a co-operative drug-store. The capital of the association is in shares of 500 roubles each, of which each member shall not hold more than twelve. Only proprietors of pharmacies are admitted as members of the Association, but application for admission must be made before June 1 next.

THE NEW NORWEGIAN PHARMACOPEIA.—The publication of the new Norwegian Pharmacopeia, which should have taken place a couple of months ago, has been retarded by all kinds of untoward events. After thirteen sheets of the book had already been put in type they were ordered to be broken up, and the whole setting was recommenced. The manuscript of the book is said to be full of flaws, and the corrections are so heavy that the printers intend to apply to the Norwegian Parliament for indemnification for their loss on the contract.

HYDROCHLORATE OF QUININE IN INFLUENZA.—Dr. Graeser, of Bonn, is an enthusiast for hydrochlorate of quinine as an influenza-prophylactic. He tried his remedy upon one of the fine squadrons of Hussars quartered in the town. The treatment consisted of half a gramme of hydrochlorate of quinine daily, dissolved in brandy. It extended over three weeks, and is said to have been popular with the men. Only seven cases of influenza occurred during that period in the squadron under treatment, whereas the other four squadrons counted respectively 19, 22, 32, and 42 cases.

THE MATERIA-MEDICA EXHIBITION.—to be held at The Hague from July 8 to 17 next, is likely to be very successful. The Exhibition synchronises with the annual meeting of the Netherlands Pharmaceutical Society in the city. The Exhibition will consist of the following sections:—Living plants, dried plants and plants preserved in alcohol, herbaria, drugs, vegetable economic products, apparatus and instruments used in the treatment of medicinal plants, accessories in the teaching of botany, &c. Mr. J. J. Hofman and Dr. M. Greshoff are the honorary secretaries of the Exhibition.

WOMEN PHARMACISTS IN HUNGARY.—Hungary is at present blessed with a Minister of Education who is a great

advocate of women's rights. His declared intention to throw open the pharmaceutical profession to women has made him exceedingly unpopular among the pharmacists of the country, though why these should object to the infusion of a female element into their ranks is more than we can say. They have, however, petitioned the Minister that before bringing in his Bill he shall inquire into the opinions of representative pharmacists on the subject of the admission of women into the profession. This the Minister has promised to do.

TRADE-MARKS IN ARGENTINA.—The law of the registration of trade-marks in Argentina is very defective. Well-known European marks may be registered by Argentinian firms in such a brief space of time that no counterclaims or applications can be made by the European owner. More than that, the genuine goods, bearing a similar mark to one registered in Argentina, are liable to embargo upon importation. It cannot be too much impressed upon British manufacturers, says our Consul at Buenos Ayres, that they must register their trade-marks in Argentina in order to protect themselves from importation or local manufacture of inferior or even equally good articles with their well-known marks on them, which would locally be accepted as stamping the genuine goods.

AT THE COST OF A WRECKED MIND.—It has but recently transpired that Henry T. Helmbold, the originator of "Helmbold's buchu," "catawba purgative pellets," and other American specialities, died in an asylum a few months ago. Helmbold was once the proprietor of the handsomest drug-store and most stylish four-in-hand in America. He royally entertained the Shah of Persia at a ball and banquet in Paris at an expense of half a million of dollars, and cabled an account thereof to all the leading papers in the United States. Once he bought up an entire edition of the *New York Herald*, and his craze was to go down to history as the greatest advertiser the world ever saw. At one time his income was estimated to be \$3,000,000 a year, all got by advertising.

CINCINNATI SINNERS.—Ohio has a pure food and drug law, and a commissioner to enforce it who means business. A correspondent of the *National Druggist* tells how he has mapped out the city into districts, bought samples from the druggists in each, examined the samples, and let loose the police upon those whose goods did not come up to his standard, or rather to that which the analyst—who happens to be Professor C. T. P. Fennell, a pharmacist—goes by. He finds that 40 per cent. of the samples purchased were not up to it, and seven persons have been arrested for selling impure distilled water. One of them has been tried, and fined \$25 and costs. Another person has been arrested for selling weak ammonia-water, and "a whole armful of warrants" have been issued. Everybody in the city is much excited about the raid.

A PAYING AMERICAN DRUG-CROP.—The United States Agricultural Department, says the *New York Shipping List*, have issued a bulletin on the commercial history, protection, and cultivation of American ginseng, compiled by Assistant Botanist G. V. Nash. The report shows that the wholesale price of ginseng has steadily increased from 52c. per lb. in 1858 to more than \$3 per lb. in 1894, and that the value of the export for the past decade has amounted to between \$600,000 and \$1,000,000 a year. The natural supply is now rapidly decreasing, and extermination appears inevitable, but the root has been cultivated in New York and in some Western States during the past ten years. The growth is so slow that there is no danger of overstocking the market, and for that reason dealers are encouraging cultivation everywhere, claiming that the crop is a very profitable one. We wonder how it would do to try to acclimatise ginseng in Britain. There is always a large demand for the drug for China.

EUCALYPTI IN NATAL.—Considerable progress has been made in afforesting Natal, and amongst the trees used are various species of eucalypti and acacia which from experience in Australia have been found to be rapid growers, and productive of good timber or other valuable products. Sir Dietrich Brandis in a recent paper mentions that the blue gum attains at Arambi, on the Nilgiri Hills, a height of 107 ft.

in nineteen years, and yields 8,696 cubic feet of timber per acre. In the higher latitude of Natal, a similar climate to that of Arambi is found at 2,275 feet above sea-level, and mixtures of *Eucalyptus Globulus*, *longifolia* and *rostrata* give an even higher yield near Maritzburg than at Arambi. Besides eucalypti, several Australian acacias succeed admirably in Natal, especially *A. decurrens* and *mollissima*; their bark is rich in tannin, and a plantation of 1,200 to 1,500 acres of these trees has been started by a private company. Meanwhile Natal has large local requirements for timber to satisfy, and once that is done we may expect to have tannin-barks from the colony as well as eucalyptus oil.

THE DRUG-TRADE IN THE PHILIPPINE ISLANDS.—M. G. de Bérard, French Consul at Manilla, in the Philippine Islands, reports that the importation of chemicals, pharmaceutical products, and perfumery in his district in the course of 1893 exceeded that of 1892 by about 15 per cent. in value. This increased importation marks a partial return of the prosperity enjoyed by the pharmaceutical trade some years ago. The last increase in the Customs tariff of the islands, however, which specially affected the articles named, has considerably injured the business in high-class British and French goods and assisted the development of the trade in spurious imitations. In 1893 Spain supplied 398 tons, France 36 tons, Britain 1,127 tons, China 3,083, Germany 188, Japan 479, Belgium 12, Singapore 110, and the United States 35 tons of chemicals and pharmaceutical goods. There has been a great increase in the imports from Germany, due, says the Consul, to the deliberate imitation in that country of British and French good of high repute. Perfumery is in great demand.

GERMAN CHEMICAL DIVIDENDS.—The net profit of Voigt & Winde's indiarubber-goods factory in Berlin for 1894 has been 80,452m., out of which the shareholders will receive 7 per cent. dividend. In 1893 the profit was 94,071m., and the dividend 8 per cent. The indiarubber-goods factory of Volpi & Schlüter has earned a profit of 64,083m. in 1894, out of which a 4 per cent. dividend will be paid. The Chemische Fabrik Winkel will pay 10-per-cent. dividends, against 5 per cent. in 1893; the Chemische Fabriken, formerly F. W. Weiler & Co., of Cologne, 14 per cent. (the same as last year); the United Chemical Factories in Mannheim, 12 per cent. (against 14 per cent. in 1893); the Consolidated Alkali-works, Westeregeln, 10 per cent. (in 1893 6 per cent.); the Factory of Chemical Products at Pommerensdorf, 10 per cent.; and the Potash-works, Aschersleben (which make a profit of 1,411,764m.), also 10 per cent. The profit of the Chemische Fabrik, formerly J. E. Devrient in Zwickau, has been 111,249m., out of which the shareholders will receive a dividend of 7 per cent.

THE ANNUAL REPORT OF SCHERING'S CHEMISCHE "FABRIK."—The directors of Schering's chemical-works in Berlin, in their report to the shareholders concerning the business of the company in 1893, state that the continued decline in the price of almost all commodities has injuriously affected the trade of the works. Over-production in chemicals is larger than ever. Many articles must be sold at almost no profit, some actually at a loss. Fortunately, business relations with Russia and the United States have again become normal. The turnover of the factory in 1894 was the largest of any year since the formation of the company, with one exception—1892. The total number of packages of goods sent out in 1894 was 52,513; in 1893 48,127. The gross profit, however, fell from 1,597,410m. in 1893 to 1,376,364m. in 1894; the net profit from 941,963m. in 1893 to 715,449m. in 1894. It is proposed to pay a dividend of 15 per cent. on the ordinary shares. Up to the present the company has entered into 573 contracts for the supply of its goods in 1895, the total amount of these being 1,181,799m. The diphtheia-remedy department has been extended, and a special factory for the preparation of photographic materials (a branch which it has been decided to add to the sphere of activity of the business) is about to be built at Charlottenburg. In the meantime, in order to be promptly in the field with photographic goods, the company has leased an existing factory, where the articles will provisionally be manufactured.

The Winter Session.

MANCHESTER PHARMACEUTICAL ASSOCIATION.

AT the meeting of this Association on Wednesday, March 13, Mr. GEORGE CLAYTON read a paper entitled

CO-OPERATION IN PLANTS.

This was an account of symbiosis as distinguished from true parasitism, although the latter subject was also touched upon. The lecturer defined symbiosis as the association of two or more plants for the purposes of nutrition. Such plants live on the "give-and-take" principle, and they may be conveniently divided into three classes—the symbiosis of (1) green-leaved flowering-plants with fungi; (2) algae with fungi; (3) animals and plants. As illustration of the first class, Mr. Clayton explained that when the rootlets or roots of the larger plant descend into the ground they meet some myceloid fungus, which ultimately entwines the rootlets, and grows with them, even though the larger plant should grow for a century. That this is not prejudicial to the larger plant is proved by the fact that rhododendron, wintergreen, broom, heath, and many other plants will not grow in certain soils, and these are the soils which are destitute of myceloid fungi. Co-relatively it has been shown that roots of healthy rhododendrons are covered with the symbiotic partner. The lecturer, by means of diagrams, explained the structure of the partner, and how the method of co-operation is kept up; and he added further examples of the good derived from symbiosis—e.g., beech and fir seeds will not grow in soil destitute of humus (or fungus filaments), but they do in soil dug from a wood known to contain the living mycelium. Plants which show this peculiarity are numerous, and belong to the *Ericaceæ*, *Coniferae*, *Salicaceæ*, *Cupuliferae*, &c. Such plants are, as a rule, gregarious, and when one thinks of the vast tracts covered by oak, fir, and heather, the immensity of the crop and influence of the subterranean partner become almost appalling. The species of fungi so associated are not yet exactly known, but it has been ascertained that rather than want a fungoid partner flowering-plants will court other fungi with which they do not, as a rule, coquette. Moreover, it is not uncommon to see trees in symbiotic relation with one fungus for purposes of nutrition while other parts of the roots are attacked by parasites, and also the branches.

The second class of symbiotic plants is illustrated in the lichens. These, Mr. Clayton explained, are a combination of alga and fungus. The alga which live in partnership with fungi, forming lichens, are very minute, sometimes unicellular plants containing chlorophyll, and mostly belonging to the *Nostocineæ*. The fungus grows round the alga, and its myceloid threads gather from the air moisture, and from the ground mineral matter; while the alga, having chlorophyll, manufactures starch and other organic matter. Mr. Clayton illustrated, by experiment and diagram, how lichens are created, and he mentioned that Borneo has actually synthesised a lichen by sowing alga and lichens together, but it does not follow that the lichens which we find on trees are so formed. On the other hand, it has been proved that already completed social colonies are deposited from the air, which have been wafted a great distance, and it is surmised co-operation has been effected during the journey.

Speaking of the third class of symbiosis, Mr. Clayton mentioned several instances in which insects assist in fertilisation, themselves deriving benefit from the process. The most interesting cases described were the fertilisation of the fig by the wasp and of the yucca lily by the yucca moth, in these cases the insect-ova being deposited in the flower-ovaries. On hatching in the former case the insects creep out and carry some of the pollen with them, while in the latter case the mother-insect deposits some pollen on the styles while she deposits her own ova in the plant-ovary, her young subsequently getting some of the seeds which she has helped to produce. Mr. Clayton added to the interest of the lecture by the diagrams which he exhibited.

MIDLAND PHARMACEUTICAL ASSOCIATION.

A SOCIAL meeting of this Association was held at the Midland Hotel, Birmingham, on Thursday evening, March 14. As far as numbers were concerned it was distinctly the best meeting of the session, a large and representative gathering being present. This was all the more gratifying as the attendance at previous meetings of the session has not been all that could be desired. Amongst the contributors to the evening's enjoyment special mention should be made of Mr. Bates, the son of a local pharmacist, and a violinist of promise, who, in conjunction with Mr. Wilkes at the piano, immensely pleased the audience by his technique and tone. The singing of Mr. Shorthouse, sen.—a visitor—was much appreciated. Messrs. Homer, Thompson Scott, and others also took part.

The PRESIDENT (Mr. Gibbs) stated that an extra-social meeting would be held on Thursday, April 18, an announcement which was received with marked approval.

BRIGHTON JUNIOR ASSOCIATION OF PHARMACY.

ON Wednesday, March 13, a musical and social meeting of this Association was held at the Headquarters, 2 Sillwood Terrace. There was a large gathering of members and friends, and with Mr. G. R. Gwatkin in the chair a very enjoyable evening was spent.

SOCIETY OF CHEMICAL INDUSTRY.

NEW YORK SECTION.

THE March meeting of this section, presided over by Mr. A. H. Mason, was chiefly notable for a paper on the

PRODUCTION OF CALCIUM CARBIDE.

contributed by Mr. T. L. WILLSON, whose patent covering the article was mentioned by Professor Vivian Lewes at the Society of Arts. Having described the experiments which lead up to the formulation of his patent process, Mr. Willson stated that Mr. E. N. Dickerson, of New York, was the first to investigate the commercial value of acetylene for illuminating-purposes. Dr. J. J. SUCKERT followed with a demonstration of the practical utility of the gas. He then spoke of its industrial applications, and gave an interesting description of the work by Davy, Berzelius, Wöhler, and others in the production of carbides. In Willson's method the intense heat of an electric furnace, applied to a mixture of coal and lime, produces the calcium carbide. A discussion followed, which was mainly complimentary, and in reply to questions Mr. Willson stated that the samples of calcium carbide used in the demonstration formed part of a 2-ton lot, which had been turned out at his works in North Carolina. At present he is using a furnace of 134 horse power, capable of producing 1 ton of material per day. Arrangements are now under way by which he will apply 5,000-horse power in one furnace, which will produce 30 lbs. per horse-power per twenty-four hours. When these arrangements are complete it will be possible to produce calcium carbide at a cost of \$5 per ton, and the acetylene from this will yield a gas that can be sold with profit at a price which, based on equal candle-power, will place ordinary illuminating-gas at 5c. per 1,000 cubic feet.

The other papers read were on the detection of a red azo colour, and on the valuation of sugars for Customs duty.

WESTERN CHEMISTS' ASSOCIATION.

A MEETING of the Western chemists of London was held on Wednesday evening last, at Craven Road, W. Mr. R. H. Parker presided, and there were about twenty-five members present.

Mr. WM. MARTINDALE, in giving his views on the forthcoming new edition of the B.P., said that probably the most difficult point in revising the *Pharmacopœia* would be the question of weights and measures, and he referred to the almost universal use of the metric system, and the loss of trade consequent upon our non-adoption of that system. In a short résumé on the various drugs of the B.P., he pointed out that the group of liquid acids is both inadequate and redundant. Carbolic acid might well be termed phenol or carbol. Some of the ammonium-preparations are not

worth their name. In the preparation of aromatic waters the simplicity of the process in the Japanese Pharmacopœia found favour with him. There the waters are prepared by agitating the essential oil of the drug with boiling distilled water. Some formulas should be given for the gelatine basis of capsules; the official preparations of collodion admit considerable extension; the formula for plasters are unnecessarily complex; and enemas appear to be unnecessary. The preparation of liquid extracts might be simplified, and the group of glycerines extended. Several of the medicated wools and gauzes might be made official. A series of granules might be inserted as in the French Codex. Many of the infusions—not one-fourth of which are in request—might be subject to a general direction of preparation, in common with decoctions. The group of lotions might be increased; and in mixtures that of creosote might be deleted with advantage. The double meaning of the word "oil" might be avoided by the use of the word "otto" for all essential oils. Pepsins should be free from peptone than at present. Some pill and powder formulas might be deleted, and others simplified; and a more exact definition of the composition of soaps is required. In spirits, a preparation equivalent to Rubin's camphor might find a place, and some official ones displaced. Many of the suppositories are perfectly useless. The vehicle used in preparing these should always be sterilised by boiling immediately before being employed. Mr. Martindale also dwelt at some length on the advantages and disadvantages of compressed tablets. In tinctures the strength might be increased in many instances. The lozenges are wanting in flavour, and some ointments could be considerably simplified. If inhalations were admitted at all, they should be considerably increased and altered. In the wines, sherry was usually employed, and was probably the best for most purposes.

A discussion of some length followed.

Trade-Marks Applied for.

ANY person who has good grounds of objection to the registration of any of the following marks should *at once* communicate with Sir Reader Lack, Comptroller-General, at the Patent Office, 25 Southampton Buildings, Chancery Lane, London, W.C.

(From "The Trade Marks Journal," March 20, 1895)

- "VOECKER"; for chemical substances used in manufactures, photography, &c. By L. Sinclair, Netherall Gardens, Hampstead, N. 185,161.
- "SPIERON"; for chemical substances used in manufactures, photography, for veterinary, sanitary purposes, &c., and also in medicine and pharmacy. By Spiers & Pond (Limited), 38 New Bridge Street, E.C. 185,594, 185,595, 185,596.
- "AKA"; for medicine for animals. By W. H. Beach, East Castle, Bridgnorth, Salop. 185,871.
- "STAMA"; for a patent medicine for gout, insomnia, constipation, dyspepsia, &c. By the Stama Manufacturing Company, 84 Oxford Street, W. The essential particular is the word "Stama." 185,238.
- "KESTONE," and outline device of a keystone; for chemical substances for use in medicine and pharmacy. By Stephen Smith & Co., 78 Malmesbury Road, Bow, E.
- "SPIERON"; for perfumery. By Spiers & Pond (Limited), 38 New Bridge Street, E.C. 183,690.

EACH chemical student,
Though ever so prudent,
In his science finds plenty of jargon,
But now, thank his stars!
He can learn his three r's—
Viz., Raleigh, and Ramsay, and Argon.
F. I. C.

Personalities.

DR. WALTER INCE has been appointed Assistant Government Analyst for Trinidad.

MR. ALFRED WILLIAM GERRARD, F.C.S., has been appointed Analyst to the Chertsey Urban Council.

MR. JOHN J. SHAWYER, chemist, Swindon, Wilts, has been elected an alderman of the Wilts Council. He is the only chemist on the Council.

MR. C. COOPER, of the firm of E. Steiner & Co., has been elected member of the Parish Council of Buttsbury, Essex, and also member of the School Board for Great Burstead, Essex.

WE cut the following from an advertisement in the Sunday edition of the New York *Sun* for March 10:—

The European Hygienic Artiste and Long-known American Complexion Specialist, Mme. A. Ruppert, at home again, after an absence of three years, during which Mme. Ruppert has made every possible research in every civilised country on the globe. Mme. Ruppert has had the honour to supply her goods to Buckingham Palace and Marlborough House. Mme. Ruppert takes pleasure in announcing a Grand Matinee at the Fifth Avenue Theatre on Tuesday afternoon, March 10, at 2.15. No charge for seats.

MR. J. KONDAKOW has been appointed Professor of Pharmacy at Dorpat in the place of Professor Dragendorff. The new dignitary is unfortunately no pharmacist, nor has he ever had anything to do with pharmacy. Nothing is known of him as a teacher, except that he has been connected with the laboratory of physiological chemistry at Warsaw University. He is, however, a Russian of unexceptionable orthodoxy, which, under the present *régime*, covereth a multitude of professional shortcomings.

THE Council of the Chemical Society has decided to confer, at next week's meeting, the Faraday medal upon Lord Rayleigh in recognition of the investigation which led to the discovery of argon. The previous recipients of the Faraday medal are Dumas, Canizzaro, Wurtz, Helmholtz, and Mendeléeff. Lord Rayleigh was born in 1842, and has had a distinguished career as a scholar and physicist. In 1865 he



was Senior Wrangler and Smith's prizeman. He acted as professor of experimental physics at Cambridge from 1879 to 1884, and since 1887 has been professor of natural philosophy at the Royal Institution. He is one of the secretaries of the Royal Society, is D.C.L. Oxon, Hon. D.Sc. Dublin, and LL.D. His wife is a sister of Mr. A. J. Balfour, the leader of the Commons' Conservative party. Lord Rayleigh is Lieutenant and Custos Rotulorum of Essex.

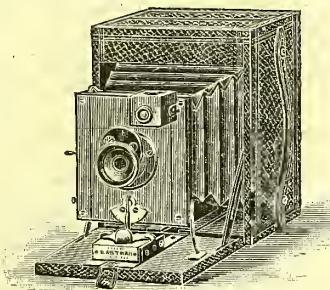
ACCORDING to Professor Reynolds Green, the diastasic property of malt extract is destroyed by sunlight. *Ergo*, do not show extract of malt in the window.



LIKE my *confrères* of the road, I can tell what influenza has done for business during the past month. Retail-trade has been good enough—too good, many say, for not a few retail-chemists have been worn out by the demand upon their energies, while doctors have snatched meals and sleep when and where they could get them. All this means a big consumption of medicine, and wholesale-druggists have had their share of it, but I fancy there has not been much money in it for wholesalers. They do not confess to fortunes recently acquired. Certainly other departments have been prejudicially affected by the epidemic, for the simple reason that principals and workers have been prostrated. Business lags under such conditions, and the only novelty sought for is that of feeling well. My report on this occasion will, therefore, be briefer than usual.

PHOTOGRAPHY.

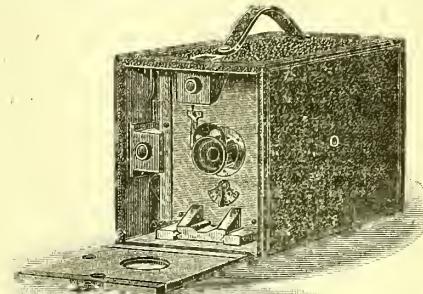
There are signs of awakening trade, but few of the leading houses are yet prepared to say what the coming season will be, and what they will put forward as new. In fact, when I walked round some of the West End warehouses two or three weeks ago, the EASTMAN PHOTOGRAPHIC MATERIALS COMPANY, 115-117 Oxford Street, W., were the only firm ready with a distinct novelty—the "Kodet." But I had to walk through a small army of carpenters before I could reach the manager's sanctum in No. 117, for the firm have just acquired the whole of the floors (including the shop) adjoining No. 115, where they have been for some years, and the combined premises are rapidly being fitted for the spring trade. I recommend any chemist who is in town to call at the shop. It is a pretty place, and in the course of a quarter of an hour one gets a notion of the possibilities of photography which nothing else short of an exhibition can give. It is well to remember in regard to the "Eastman," the original part of their business and now the more important, is the manufacture of films and photo-papers. The "Kodak" was a second thought, as it were, a something to fit exactly with Eastman films, because there was nothing



THE FOLDING KODET.

else in the market that would. This is one of the things one fully appreciates during a visit to the Oxford Street shop. I looked round—everywhere materials. I stepped into a pretty alcove, sank into a couch that would do credit to a seraglio, and an assistant enthralled me with pictures by Lord Battersea, taken under the shadow of the Crescent. The pictures covered at least 6 square feet—"enlargements from ordinary kodaks," I was told. Some on nikko, some on solio-paper, but all of them beautiful. Upstairs, the manager rapidly sketched for my benefit the evolution of the

"Eastman" film to its present stage of perfect transparency—sheets of practically pure cellulose (*not* celluloid) coated with a sensitive film. He burnt a bit of it to show me that it smouldered away as a piece of cardboard would. Then I turned to the new "Kodet." I suppose everybody knows by this time what the "Kodak" is—a camera to carry a roll of film. Well, the "Kodet" does that too, and also plates or sheets of film in the ordinary double dark slides. Sub-



THE "REGULAR" KODET.

stantially it is a hand and ordinary camera in one. It is in two forms, as shown by the figures which really explain themselves, and can be used for all purposes from a $\frac{1}{300}$ th-second snap-shot to a slow exposure on a tripod for an architectural interior.

One can focus by button, or by ground glass screen; in fact, the possibilities of the "Kodet" have yet to be limited. It is made in various sizes, but the quarter and half-plate are those which are anticipated to go best. They are strongly made, finished in black leather, and cheap. As sent out they are fitted with single lenses, but doubles are put in for a small extra cost. I understand that the "Kodets" have a good prospect of taking well in the colonies and India. Quite a number of them have gone out with passengers in recent P. & O. boats. Will colonial retailers note this?

SPONGES.

Being in the eastern portion of the City on Tuesday last I called upon Messrs. HENRY MARKS & SONS (LIMITED), sponge importers and merchants, of 42 to 46 Houndsditch, E.C. This firm, to meet the increased demand of trade, have lately amalgamated their premises which hitherto have been on opposite sides of the street, and the visible result of this improvement is a handsome block of red-brick building of four floors and basement fronting Houndsditch. This building has a large extent of well-lighted floorage, and as I walked through I saw with surprise the exceedingly large stock of the varied assortments of sponge which the firm keep on hand. Communicating with the front building, and extending for a considerable distance behind it, are store-rooms, carding-rooms, bleaching-rooms, &c., and the drying-room, the latter being unique in its character and built on a principle which obviates the vitiation of the atmosphere so harmful to workers in high temperatures. The improvements which the firm have initiated will no doubt prove as useful as they are ornamental in so important a business.

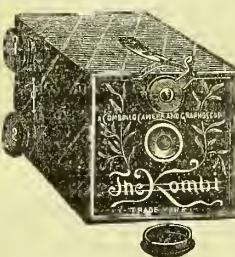
ESSENTIAL OILS.

I am indebted to Messrs. STEVENSON & HOWELL, Southwark Street, S.E., for a copy of Helbing's *Pharmacological Record* which contains a report of an investigation carried out for them by Mr. Helbing and Dr. F. W. Passmore, with the view of ascertaining what may be suitable pharmacopeial standards for essential oils. On several occasions during the past seven years THE CHEMIST AND DRUGGIST has urged the necessity for thorough revision of this department of the British Pharmacopeia, and there is every reason to expect that this will be done in the next edition. But as I understand this subject will be discussed in the series of Pharmacopeia articles, I will not go into the *Record* details. Moreover, that is scarcely necessary, for any pharmacist may get a copy of the "Record" on application to Messrs. Stevenson & Howell. What I wish to emphasise now is the fact that here is an English firm, whose business interest is not exclusively or mainly connected with

pharmacy, who recognise that the integrity of the essential oil trade largely depends upon official standards, and, therefore, that the B.P. characters and tests for these oils should conform with the best commercial specimens. Perhaps nothing in the B.P. is so unfortunate as that expression "distilled in Britain," which becomes "Ang." on wholesale labels. Instead of being a sign of purity, it is too often a cloak for all iniquity, hence essential-oil dealers and manufacturers have come to say that "any oil will do for English chemists as long's it's cheap." I gathered during an interview that Messrs. Stevenson & Howell think well-defined B.P. characters and tests will help to stop this sort of thing. We must try to get out of the traditional notion that, e.g., sandalwood oil is all right when it is labelled "Ol. santal. Ang." for there is plenty of it in the market, "most of it," Mr. Howell says, which is a mixture of cedar oil and santal oil. In fact, Dr. Passmore was so surprised with the data he got from the S. & H. oil that they actually distilled some wood in his presence to show it was right. They are doing the same now, I understand, with ol. cinnamomi. Of course, that has always been "ver.," but I don't suppose that one pharmacist in a dozen in this country has handled cinnamon oil distilled from the bark only. It is generally a mixture of leaf and bark oil. Such anomalies as this the next Pharmacopeia may set aside.

CAMERAS.

MESSRS. GEORGE HOUGHTON & SON, at 89 High Holborn, W.C., showed me "The Kombi," the miniature magazine camera which a colleague in the publisher's department tells me is advertised this week.* It measures only 2 inches by 2½, and is made of metal with a silver-bronze finish. It weighs 4 oz. when loaded with strip of film for twenty-five exposures.



with a rapid rectilinear lens, iris diaphragms, and Thornton-Pickard shutter. A swing back, rising and cross fronts, and three double dark slides complete this attractive little camera, which will be on the market immediately. The five-guinea half-plate "Imperial" camera set is a speciality of Messrs. Houghton's. It comprises an excellent camera with double-extension bellows, and all the movements and accessories which are needed for taking pictures under all conditions. I also saw the "Midget" tripod stand, which is in the form of a walking-stick and is specially adapted for hand-cameras. Messrs. Houghton have also something new in the shape of superior cardboard mounts and slip mounts with embossed designs for the coming season, and retailers can get samples on application.

IN THE BOTTLE BUSINESS.

Mr. Jörgensen, of the firm of JOHNSEN & JÖRGENSEN, of Eastcheap, E.C., invited our town traveller the other day to accompany him to the firm's new bottle-warehouse at the East India Dock. On the way our representative was shown a copy of the new illustrated price-list which the firm have just brought out, and of which they are justly proud. Mr. Jörgensen then explained the *rationale* of the combination-scheme which he has initiated, and which now includes fifteen works—viz., five French, four German, two Belgian, two Swedish, one Danish, and one English, besides an English factory of wood-boxes for mineral waters and other bottles. These manufacturers have appointed Messrs. Johnsen & Jörgensen their agents for Britain and the Colonies, and each one supplies only the bottles which his factory can turn out best, so that there is no competition among them. The German quota consists of hock bottles, part of the pale-metal bottles, and several varieties of dispensing bottles.

* Mr. Alfred C. Kemper (Adams & Hayden, managers), 35 Oxford Street, W., is the manufacturer of the camera.—ED.

From France come claret and Burgundy bottles, and fine small white bottles; Belgium chiefly supplies jam jars and confectioners' bottles; Sweden, mostly beer bottles, and a few sundries; Denmark nothing but beer bottles, and England chiefly bottles for mineral-waters. The new warehouse is a huge place close to the water's edge, with which it is to be put in still better communication by means of a new concrete road which the firm are building at their own cost. "The necessity of this piece of road," said Mr. Jörgensen, "is obvious if you consider the weight and bulk of some of the packages we have to deal with. Look at those French crates there. Monstrous things. They cost 120 frs. each, and hold fifteen gross of large bottles. Of course we have to repack them. Fancy shipping a thing like that to Australia or India! And yet the French makers won't alter their style of packing, in spite of our repeated protests that they are half-a-century behind the rest of the world in this respect. Now see the difference in the Swedish packages. They are by far the best we have to deal with. Every layer of six or twelve bottles is separately covered with straw, and some of the bales in which the Swedes pack part of their bottles might be sent round the world with scarcely a breakage. In fact, the breakage in this class of bottle rarely exceeds 1½ per cent. Our stock is rather low just now," continued Mr. Jörgensen rapidly passing along the huge bins stacked with bottles of all shapes, sizes and colours. "Last October we had just over 10,000 gross in stock, but our busy season is now on in the beer, wine, and mineral-water bottle departments. Medicals and spirit bottles mostly go in winter. Look at this amber corby. Isn't it pretty? Made in Germany, of course. So are the small amber bottles, but the large sizes are Swedish. The sand in some parts of Sweden and Germany lends itself peculiarly well for the manufacture of bottles of this colour. They can also turn them out very nicely in Scotland, but they have to use a larger proportion of colouring-mixture, and that makes the cost too great. These white flints are French, they are specially liked as perfume bottles. The 'limes' are French, also. These jam-jars are made in the Liège and Namur districts. No one can compete with the Belgians in this line. Of course, added Mr. Jörgensen in reply to a question, it has taken us a long time to find out where all the particular varieties of bottles are made best and cheapest. I think I have visited every bottle factory in Europe north of Dresden and Paris, and I am shortly going to Bohemia, to add another factory or two to our list, and so complete our efficiency in all departments."

Business Changes.

MR. ROBERT DAVIS has sold his business at 5 Edge Lane, Liverpool.

MR. ALVAN L. WYATT has taken over the pharmacy carried on by Mr. Aplin at New Eltham.

MESSRS. O. BEREND & Co. have removed from 61 Fore Street, E.C., to Dunedin House, Basinghall Avenue, London, E.C.

MR. BURGESS's shop at Port Talbot was fitted by Mr. Henry Govier, of 4A Well Street, Hackney, London, and not by the firm we mentioned in our last issue.

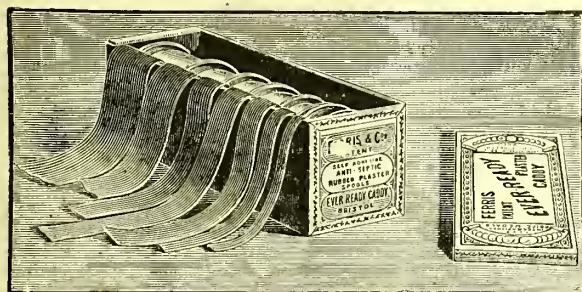
ONE of the oldest and best chemist's businesses in Hull is that of Mr. Francis Earle, Market Place. Some years ago the father of the present proprietor adopted Store prices for patents, &c., and now the son, to further secure the old connection and to keep up with the times, is opening a branch shop in Prospect Street, one of the leading thoroughfares of the town. By all appearance the shop when fitted-up will be an ornament to the street, and will no doubt attract to its counter the better class of the surrounding residents.

MELBROSE FAVOURITE HAIR RESTORER.—This curious error on the part of an Austrian paper takes one from Melrose to the vales of Atholl, where the brose referred to originated. Atholl brose is a mixture of honey and whisky, and stomachs which can retain it are almost extinct now.

Notes of Novelties.

EVER-READY CADDY.

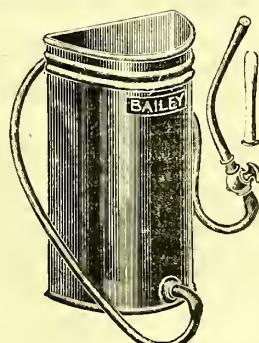
MESSRS. FERRIS & Co., of Bristol, have introduced a really good thing in their new series of ever-ready caddies. The illustration which we give is but one of many in the series, and perhaps a complete appreciation of the value of the caddies cannot be attained by looking at one. However, one will serve to illustrate the construction. The engraving in this case shows a caddy filled with spools of rubber adhesive plaster, but the series also includes lints, gauzes, wools—in fact, everything in the nature of textile dressings required by surgeons. The construction of the caddies is simple: the end which is labelled with the name of the



contents is double, the outer portion sliding up so as to expose the shaft, which fits into the hole of the spool of plaster, or whatever it may be. The manner in which this is done is shown in the firm's advertisement in this issue. The material can then be unwound as required. Obviously, apart from their convenience in storing dressings so that they can be got when wanted, the caddies are well suited for preserving the integrity of antiseptic dressings, and for purposes of export. They are made in two sizes, and cabinets to hold a selection of them in the surgery are also supplied. We notice that, though lints and wools are supplied for the caddies 8 inches wide, gauzes are supplied full width, ready rolled on spools. Surgeons seem to be delighted with the arrangement.

SURGICAL GOODS.

SOME time ago Messrs. W. H. Bailey & Son, surgical-instrument makers, Oxford Street, W., introduced at the suggestion of Dr. Grigg, Queen Charlotte's Lying-in Hospital, a vaginal douche on the fountain principle, which has been so



favourably received that they now put one, called the "Belgrave," on the market at a cheap rate (3s. 9d. to the retailer). It consists of a nickelled iron can, to which a 6-foot black rubber tube, fitted with a vulcanite nozzle of

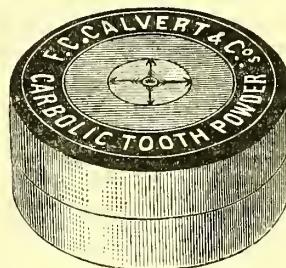
special design, is attached. The nozzle has an elbow bend, so that thorough washing of the uterus can be effected by it, while the rectum-pipe is so long that any injection can be thrown far beyond the lower bowel, thus ensuring the cleansing of the intestinal track. Messrs. Bailey & Son have perfected their system of classifying suspensory bandages according to style and size. Every retailer knows what a worry it is to get a customer suited with a bandage when it has to be picked out of a drawerful of all sizes. Messrs. Bailey's system is to mark every bandage with a number and letter—4B, for instance. By referring to the list, one finds that No. 4 is so-and-so, and the letter B indicates the size. If B is too large, A can be supplied; if too small, then size C. In the case of hydrocele, where a continually increasing size is necessary, it will be seen how very convenient this system is for ordering. Apart from that, there is the convenience in stocking the bandages. Each one is put up in a neat slide-box, labelled at one end with the size and style, thus:—

To repeat
quote No. 4th SILK

So that they are easy to pack away, easy to fit, and easy to sell, while the quality is excellent.

NEW BOXES.

THE Patent Stopper, Box, and Stamp Company (Limited), of Birmingham, and 13 Victoria Street, S.W., are makers of stamped-tin boxes, which, as far as we are aware, are unique. The box part is in one piece, and the recess for the lid is shrunk, so that when the lid is put on the whole edge is perfectly flush. The engraving shows exactly how a box



looks. Of course, the company produce all sizes of boxes, and in many styles of decoration. We have not seen better boxes, and several of the leading firms have commenced to use them exclusively. In a chat which we had with the Secretary, Mr. Houghton Brown, he informed us that the box department is but one of their branches of manufacture. The company are going in for all kinds of stamped-metal articles, especially those of a small size, and they are to have for the cycle-season some good things in oil-cans, &c. To put the matter briefly, if anyone wants an idea in tin or nickelware carried out, he should communicate with the company.

AROMATISED TOBACCOS.

PINOZA TOBACCOS are the latest patented form for applying a medical agent by means of smoking. In this case pine-oil is judiciously combined with tobacco, and is supplied in the form of loose tobacco, cigars, cigarettes, and snuffs. Pine-oil has excellent antiseptic properties, and is found of benefit in throat and chest complaints. The flavour with tobacco is pleasant. The patentees (Lusby's Pinoza Tobacco Company, 10 Minories) wish to sell their products through chemists, and promise to prevent cutting.

"CARAMELS" are used by ladies for developing the bust. A medical man wants to know what they are. Can any subscriber tell?

Trade Notes.

WE understand that Messrs. Krohne & Sesemann have made some further improvements upon their chloroform inhaler.

MESSRS. WYLEYS (LIMITED), of Coventry, have issued a prettily printed priced catalogue of their manufactures. It contains a number of effective half-tone engravings.

IT will be noticed that Messrs. Burgoyne, Burbidges & Co., 16 Coleman Street, E.C., give this week a price-list of Chanteaud's Dosimetric Medicaments, for which they are agents.

MESSRS. TAYLOR BROTHERS, colour-printers, &c., of Leeds, send us a prettily-designed almanac-card in colours. Attached to the card is a block of memo slips, with separate space for each day, and each slip may be detached weekly.

MESSRS. G. A. DOMPÉ & CO., Anglo-American chemists, of Milan, Italy, have just removed to larger premises at 5 Piazza Scala. The firm are agents for several British and American houses, among others for Thomas Christy & Co. and John Wyeth & Brother.

CURANILLO is the name of a new cough and bronchial medicine, also called Dr. Caleb's Fruit Cure, which Messrs. Norton, 23 Bartlett's Building's, Holborn Circus, E.C., are introducing as a stamped medicine. Several medical men speak well of it, and last week the *Court Circular* wrote about it as an influenza specific.

MR. K. HEBBELE, 149 Houndsditch, E.C., is the United Kingdom agent for Dr. Ernest Sandow's artificial mineral water salts. This article is well adapted for export, since they are compact, well-packed, and are made to represent most of the popular mineral waters. Each of the bottles is provided with a glass measure for serving a dose of the salt.

THE CEREBOS SALT COMPANY (LIMITED) are offering a reward of 10*l* for the most suitable motto or phrase not exceeding ten words, to print on the reverse side of the "test circle" found in their tins of salt. Chemists are eligible to compete. Postcards, restricted to one from each person, must reach the Secretary, Cerebos Salt-works, Newcastle-on-Tyne, not later than April 9. The result will be published in the *Daily Graphic* of April 22 and 23.

WE have before us an advance copy of Messrs. Francis Newbery & Sons' price list for 1895. The essential difference between it and its predecessors is that articles labelled poison are marked "P." This is useful to know, but we observe that some articles which are not, and do not contain scheduled poison are also marked "P." Apparently Messrs. Newbery have gone as far as they can go, viz. according to the packages. It would be an immense service to chemists and druggists if they could have the idea carried out in regard to scheduled poisons contained in the medicines.

"NOT IN IT."—For Easter tide especially, but practically for all times, Messrs. Ayrton & Saunders have designed a very attractive framed showing-card for their penny dyes. It is striking, holds eighteen dozens of different colours, and there go with it some pretty little cards showing a chick who has just come out of his shell—

"Not in it," said the little chick
While standing on his legs,
There's nought can equal Saunders' dyes
For dyeing Easter eggs.

Apparently Messrs. Ayrton & Saunders are in it.

MESSRS. BURROUGHS, WELLCOME & CO. have issued an announcement referring to the death of their late senior partner, Mr. S. M. Burroughs, and notifying that the business of the firm will be continued as heretofore, and will be under the personal direction of Mr. Henry S. Wellcome. The firm name will remain unchanged. It is added that the services of Mr. R. Clay Sudlow, general manager; Mr. A. Searl, F.C.S., manager of the works; Mr. W. H. Kirby, chief accountant and assistant general manager; Mr. W. Lloyd Williams, F.C.S., assistant manager of the works; and the other members of the general staff have been retained. Mr.

Sudlow and Mr. Kirby are, as heretofore, authorised to sign for the firm.

HEYES' soluble fluid is something new which Heyes' Sanitary Compounds Company (Limited) are bringing out. It is an amber-coloured viscous liquid, heavier than water and perfectly soluble therein, a 3 per cent. solution being quite clear. It is intended for making an antiseptic liquid for keeping instruments in during surgical operations, but it may be used, and is likely to be used for other surgical purposes. Samples and prices can be obtained from the company's office, 43 Cannon Street, E.C. It may interest the trade to know that the company as agents for Migranin have recently been asked by more than a thousand medical men for samples of that article. The most likely result of this will be that prescriptions for it will come in. Migranin is antipyrin-caffeine citrate, and it must be given in 16*g*-grain doses. Dr. Overlach insists on this being the only correct dose.

Marriage.

OWBRIDGE—OWBRIDGE—On March 14, by special licence, at St Matthias Church, South Kensington, Mr. W. T. Owbridge, chemist and druggist, Cottingham, Hull, to Emma, daughter of the late Stephen Owbridge, London.

Deaths.

CLARK.—Mr. Thomas Clark, the oldest drug-broker in Mincing Lane, died suddenly at his residence in Gipsy Hill on Wednesday last. Mr. Clark commenced his business life with the firm of Donald Gray, in which he afterwards became a partner, and the name of the firm was altered to Gray & Clark. On the death of his partner, he went into business with his sons under the title of Thomas Clark & Sons. For many years, however, he has been the sole partner, and was chiefly known in the drug-trade as the principal broker for Tinevelly senna. Mr. Clark is survived by one son and his second wife, and we understand the firm will be carried on by the executors.

EVANS.—On March 9, Thomas Evans, chemist and druggist, Burnley. Aged 47.

HEIMSCETH.—Mr. Charles Heimsceth, a partner in the firm of Widenmann, Broicher & Co., of Lime Street, died on Monday last, at his residence in Brixton, in his fifty-first year. Mr. Heimsceth was a native of Cologne. He was formerly connected with the now extinct house of Sose & Sibeth, but upon the death of the late Mr. Widenmann, joined the firm with which he has since been connected. Some twelve or fourteen years ago his firm were the largest dealers in quinine and cinchona-bark in London, and acted as buying agents for all the continental manufacturers excepting one.

HERRON.—On March 4, at 52 Headland Park, Mary, wife of Frederick Herron, chemist and druggist. Aged 81.

MEAD.—On March 10, William Mead, chemist and druggist, Hemel Hempsted. Aged 66.

PEARSON.—On March 7, Charles Thomas Pearson, chemist and druggist, London. Aged 63.

RONÉ.—On February 27, at 139 Oakfield Road, Liverpool, Fanny, the beloved wife of Francis F. Roné, and youngest daughter of the late Thomas Taylor, chemist, Bristol. Aged 56.

SEATH.—At Dunfermline, on March 18, Mr. Alex. Seath, pharmaceutical chemist, aged 60. The deceased gentleman belonged to Kirkcaldy, and served his apprenticeship with the late Mr. Dron there. He had been in business on his own account in Dunfermline for upwards of forty years. Mr. Seath was at one time a member of the Council of the Pharmaceutical Society's North British Branch, and took a prominent part in local affairs.

SLATER.—On March 11, at Lundy, Surry Road, Bournemouth, Fanny, wife of Jonathan Slater, chemist and druggist, of Wells, Somerset. Aged 45.

SMYTH.—The death is announced of Mr. Robert Smyth, chemist and druggist, Pontypridd, who was in business before the Pharmacy Act passed. He was highly thought of in Pontypridd.

Legal Reports.

COUNTY COURT CASES.

A CIGARETTE AGENCY.

AT the Keighley County Court, on Thursday, March 14, before Judge Gates, Charles Stanley, grocer, of Low Street, Keighley, sued the Spanish Cigarette Company, Strand, London, to recover the sum of 16*l.*, damages for breach of contract. The plaintiff's evidence was to the effect that he was appointed sole agent for Keighley for the sale of certain herbal cigarettes manufactured by the defendants, and on that understanding he purchased a quantity of the goods. He discovered a few months afterwards that Goodall's Drug Company were also agents for the cigarettes. He then offered to return the goods he had purchased, provided they would refund the money. The defendants refused to do that, consequently the present proceedings were instituted. Mr. Holmes Wright, who appeared for the defendant, urged that there had been no contract, or, if there was, it was not binding, because the traveller had no power to enter into such an agreement. Further, the contract should have been in writing. His Honour, in giving his decision, said no doubt the plaintiff had been let in, but, at the same time, he was reluctantly bound to come to the decision that the defendant company must succeed. Judgment was accordingly entered for the defendants, without costs.

A CORK QUESTION.

JUDGE MASTERMAN, sitting in the Doncaster County Court, resumed the hearing of the action in which Messrs. Johnson & Co., Leeds, sued Mr. Hopkinson, executor of Wm. Slack, to recover 9*l.* 17*s.* 5*d.* for corks supplied. A report of the first hearing appeared in THE CHEMIST AND DRUGGIST. Defendant trades as a chemist and ginger-beer manufacturer at Doncaster, and he submitted that the corks were not suitable for ginger-beer bottles. At the hearing on Thursday, March 14, Mr. Sims, an official of the court, produced a sample of the corks which he had taken, and the plaintiff produced the sample bottle upon which the corks were supplied. His Honour, after seeing that one of the corks, taken at random, fitted the bottle, gave judgment for the plaintiffs for the amount claimed and costs.

A BIG DOSE OF MALE FERN.

AT the Accrington County Court on Thursday, March 14, Joseph Bleasdale and his wife sought to recover 19*l.* 12*s.* from A. E. Brunskill, a herbalist, Blackburn Road, Accrington, in respect to injuries sustained by the female plaintiff from taking medicine prescribed by him. The evidence was to the effect that Bleasdale called at Brunskill's shop and asked for something for his wife, describing her ailment. Defendant prescribed oil of male fern and a powder. He gave a $\frac{1}{2}$ -oz. bottle of the former ("rather more than half full"), and some time after Mrs. Bleasdale took this she became ill, and Dr. Fox was called in, as well as a professional nurse. Dr. Fox, as one of the witnesses, said the dose was excessive. Defendant, in his evidence, said he informed Mr. Bleasdale that 2 dr. was a customary dose. Mr. Bleasdale knew what it was he was buying, and gave it to his wife at his own risk. Cross-examined, witness said he kept no article which was scheduled under the Pharmacy Act as dangerous medicine. He did not prescribe for people when they came to his shop, but simply sold them what they asked for. He wrote directions on the bottles, but did not call that prescribing or dispensing. His Honour, having reviewed the evidence, said he was of opinion that defendant had been guilty of the grossest carelessness, and, that being so, there must be a verdict for the plaintiff. He thought, however, plaintiff had exaggerated the damages, which he assessed at 12*l.* 12*s.* and costs.

500*l.* FOR LIBEL.

AT the West Riding Assizes, on March 14, before Mr. Justice Charles and a special jury, Mr. Tindal Atkinson, Q.C., for a Mr. Hollander, who had brought an action against Messrs.

Rowntree & Co., of York, to recover damages for libel, slander, and trespass, stated that the parties had agreed that there should be judgment for the plaintiff for 500*l.*, and judgment for the plaintiff on the counterclaim, and certain charges of fraud were withdrawn. Mr. Kershaw, Q.C., who appeared for the defendants, said it had been agreed that this should be a full settlement of all the claims arising out of the action.

SALE OF FOOD AND DRUGS ACT.

DEFICIENT GINGER.

AT the Bridlington Police Court on Saturday last, H. A. Willigreffe, grocer, Hilderthorpe, was summoned for selling ground ginger which was adulterated with 50 per cent. of exhausted ginger.

Superintendent Harvey deposed to going to defendant's shop and asking him for 2 oz. of ground ginger, at the same time telling him that he wanted it for analysis. Defendant, emptying a canister, said that he had not quite 2 oz., but let witness have all he had for 1*l.* Witness offered to divide it into three parts, but defendant said he did not want any. Witness therefore divided it into two, and sent one part to the public analyst.

Mr. Brigham, for the defendant, submitted that ground ginger was an article of small consumption, and this had been in stock four years; that the quantity purchased was not a sample, as required by the Act, but was all the defendant had; that there was an important omission in not having delivered one part to the defendant; and, further, that it was not sufficient to give the printed notice. The superintendent should have said that it was required for analysis by the public analyst.

The Chairman said they would adjourn the case for a week to consider these points before giving their decision.

Mary Whitfield, grocer, Newton, has been fined 10*s.* and costs for selling $\frac{1}{4}$ lb. of ginger, which the public analyst certified that the sample examined contained 5 per cent. of spent ginger.

ANALYSTS DIFFER.

AT the North London Police Court on Monday, before Mr. Lane, Q.C., a summons was heard which had been taken out by the Stoke Newington Vestry against a milk-dealer for selling milk from which a proportion of fat had been extracted. Dr. Arthur Kenwood said he analysed the sample and found only 6*l* per cent. of cream, whereas any ordinary sample of good milk would contain quite 10 per cent. of cream. Mr. C. V. Young, who defended, said he had an analyst present who would say he had examined a portion of the sample taken, and found it to be good quality milk. Mr. Young cross-examined Dr. Kenwood, and elicited that prior to coming to the Stoke Newington Vestry, where he had been three months, he had analysed samples for the Finchley Local Board.

Mr. Young: As an amateur?

Dr. Kenwood (smiling): No; I always got my 10*s.* 6*d.*

In reply to further questions, witness said there was no particular test for the analysis of milk. The specific gravity was taken. His experience was that cream would separate from the milk in twenty-four hours, and he left this sample for that period.

Mr. Young: And would you be able to determine, no matter what size the globules?

Dr. Kenwood: Yes; but sometimes the globules are so small that they never rise.

Mr. Young: By what process did you arrive at your conclusion?

Dr. Kenwood: Schmidt's process, and another process which is performed by Dr. Bell at Somerset House. I checked my analyses by both of these processes and found the percentage of fat low. This was not what I would pass as average milk; it was 3*4* below what I consider the standard of good average milk. I do not agree that 3*64* is a good average milk, or that 2*75* is the limit of fat allowed.

Mr. James De Hailes, F.I.C., Fisher Street, Red Lion Square, Holborn, said that on March 13 he had a bottle of milk brought to him, which he analysed and found to be a

good quality milk, and reported it as such. Three per cent. of fat would be a very good average milk; but this showed 364, and proved a very rich milk. The limit allowed for genuine milk was 2 75 per cent. of fat.

Mr. Lane: What do you mean by allowed?

The Witness: The Government analyst at Somerset House allows that.

Dr. Kenwood: The limit expected by the Society of Public Analysts is 3 per cent.

Mr. Hailes: They have fixed the limit themselves at 3 per cent., but it is not recognised.

Mr. Lane: And Somerset House has no authority in law to lay down any limit. They have no right as Government officials to make laws for themselves. And I would ask, are their grounds for fixing the limit any better than those of the Society of Public Analysts?

Mr. Hailes: No; probably not. Though I don't think any man who would want to find 3 per cent. of fat in all the milk as it comes down to London would know much about it. My own experience has been that, taking the milk as it comes into London, 2 75 per cent. of fat is a very fair average.

Mr. Lane: You mean that it would be different to the milk to be got from rich pastures?

Mr. Hailes: I mean the London cows.

Mr. Lane: Do you agree with Dr. Kenwood that milk changes after being kept a length of time?

Mr. Hailes: Oh, yes.

Mr. Lane: What would you have expected to find had you analysed it when Dr. Kenwood did?

Mr. Hailes: I cannot say. My figures seem to say that it was a good quality milk.

Mr. Lane: Yes; taking your figures, it is a very fine specimen of milk. And of course the summons must be dismissed.

Mr. Young: I think we ought to have costs against the Vestry.

Mr. Lane: No; I think not. They act in the public interest.

TODMORDEN CASES.

AT Todmorden Petty Sessions on Thursday last week, Young Speak, grocer, &c., Knowlwood, was summoned for possessing tincture of rhubarb not up to standard, but as the defendant pleaded that the drug was not for sale the Bench dismissed the case.

At the same time Robert Newell, herbalist, Todmorden, was summoned for selling seidlitz powders. The packets were unequal in weight, and averaged only 112½ gr. instead of 160 gr. It was stated on behalf of the maker that some of the packets were over and others under the required weight. Defendant was fined 5s., and 23s. costs.

[During Newell's case Mr. Boocock, for defendant, raised the point as to whether, in buying seidlitz powders—say a dozen—it is enough to divide into three lots of four, or to mix the whole and divide into three portions, or to divide the particular article to be submitted to analysis into three. He thought the last was the proper way. The Clerk put it thus: If he went into a shop and asked for a dozen pennyworts of tobacco, and the inspector went in and said, "We'll have this analysed," and he handed to the inspector the whole of the twelve, and the latter returned four to the dealer, he (the Clerk) thought that wou'd be quite enough; he need not break into each one. Mr. Boocock said it happened in the present case that three out of the four packets showed a little irregularity so far as the quantity of the materials used went, but it was not such as would hurt anybody. Was he to understand that the Clerk overruled his objection? The Clerk repeated that he did not think it necessary that the packets should be broken into for the purpose suggested by Mr. Boocock. The matter then dropped.]

A MALT-EXTRACT PATENT.

THE action in the Court of Session, Edinburgh, by Paterson's Chemical Manufacturing Company (Limited), Glasgow, against John Montgomerie, Virginia Place, 361 Dumbarton Road, Partick, for reduction of certain letters patent

granted to the defendant dated March 27, 1886, was disposed of by Lord Low on Tuesday, March 19. The plaintiffs, who manufacture and sell malt extract to bakers to be used in baking bread, sought reduction of the letters patent on the ground that the defendant claimed to be entitled to restrain any person from using malt extract in the baking of bread; whereas the plaintiffs averred that the letters patent were not valid, in respect that the invention had been anticipated. The defendant at first lodged defences, but ultimately represented that the plaintiff had brought into court the wrong person. Counsel for the plaintiff intimated that he now abandoned the action against Montgomerie, and asked expenses against him till the date when he made the latter defence. Lord Low, however, sustained the pleas of the defendant, dismissed the action, and found the defendant entitled to expenses.

Gazette.

PARTNERSHIPS DISSOLVED.

Banks, A., and Sykes, J., under the style of Banks, Sykes & Co., dry-salters, chemical and soap manufacturers, Heckmondwike.

Edwards, G., Davies, F. W., Seager, W. T., Lakey, T., and Lakey, G., under the style of G. Edwards & Co., so far as regards F. W. Davies, sand and seed merchants, specialists in foods and medicines, for birds, beasts, and animals, Bowden Street, Kennington, and Paradise Street, Lambeth, S.E.

Hovenden, R., Hovenden, A., Hovenden, C. W., and Hovenden, R. G., under the style of R. Hovenden & Sons, so far as regards C. W. Hovenden, wholesale perfumers, warehousemen, and vendors of patent medicines, City Road, E., and Berners Street, W.

Murley, E., and Christian, W. H., under the style of the Hull and Grimsby Mineral Water Company, Kingston-upon-Hull.

Wadley, F., and Holloway, P. M., under the style of Wadley & Holloway, brewers, maltsters, wine and spirit merchants, and mineral water manufacturers, Highworth, Wiltshire.

THE BANKRUPTCY ACTS, 1883 AND 1890.

ADJUDICATIONS.

Ives, Robert Hanworth, Norwich, chemist and druggist.

Morgan, Thomas Lloyd, carrying on business as Morgan & Francis, Mothvey, Carmarthenshire, Llandovery, and Carmarthen, as Morgan & Francis, aerated water manufacturers, chemist and aerated water manufacturer.

Patten, James Hinde, Newhall, chemist, druggist, and grocer.

Deed of Arrangement.

Noble, George Edmund, 26 St. Ann's Street, and lodging at 5 Wolesley View, Leeds, drysalter. Trustee, William Hayes, Albion Street, Leeds, accountant. Dated, March 7; filed, March 14. Liabilities unsecured, 142L. 6s.; estimated net assets, 120L. The following are scheduled as creditors:—

| | £ s. d. |
|---|---------|
| Bankers' claims | 28 0 0 |
| Bigsby, W. T., Deptford | 11 0 0 |
| Glover, H., Son & Co. (Limited), Bradford | 10 0 0 |
| Lofthouse & Saltmer, Hull | 21 0 0 |

TEUFEL!—The *American Druggist* reports that Seabury & Johnson's baseball team are kicking because some of Merck's team talk to the pins and balls in German. We suppose S. & J.'s lot prefer the local language, which can be forcible enough on occasions.

A NEW USE FOR LEAVES.—A Philadelphia firm advertise, offering \$3.50 per ton for 300 tons of "forest leaves," delivered in bales or bags at any railway station in New Jersey. The leaves are to be used at a factory in Vineland, N.J., for the manufacture of linoleum.

The Pharmacist in Fiction.

BY A. C. MEYJES.

(A paper communicated to the Chemists' Assistants' Association at the meeting held on March 14)

FEW characters occur in literature more sparingly than the pharmacist. He is the Ruthenium or Vanadium of the mines of fiction, whose every shaft show veins of her commoner metals—lawyers and pirates, curates and maid-aunts, New Women and adventurers. The older workings of English literature yield a few examples of the apothecary, but for good specimens of the modern pharmacist one vainly explores the native deposits. Fortunately, however, the deficiency may be made good to some extent from foreign sources, and these supply the best pieces of my meagre collection. Even more striking than the rarity of the pharmacist of Fiction is the unanimity with which authors have treated him as a being of abnormally low morality or intellect. I do not propose to embark upon a long speculative inquiry into the causes of this fact. My object has simply been to concentrate from the pages of some leading authors the principal traits of the characters who figure there under the guise of pharmacists, and to exhibit for your edification the "unparalleled waxworks show" of foolish or wicked creatures which is the result.

So far as I know, no writer of fiction previous to the end of the last century has given us an exhaustive character-sketch of the apothecary, although several older authors casually allude to members of the craft. There is one reference, for instance, and one only, to a genuine apothecary in Chaucer's "Canterbury Tales." It occurs in the "Pardoner's Tale," in which one of three men who have found a treasure poisons the wine of his comrades. The miscreant obtains the poison under the ever-effective pretence that

he might his rassis quell.
And eke ther was a polkat in his haw,
That, as he sayde, his capouns had i-slawe;

"Thapotecary" answered:—

And thou schalt have
A thing that, also God my soule save,
In all this world ther nys no creature,
That ete or dronk had of this conjecture,
Nought but the mountaunce of a corn of whete,
That he ne schuld his lif anoon for-lete.

The last four lines, I imagine, might be appropriated with advantage as an advertisement by the proprietor of a vermin-killer. Shakespeare has already been rifled bare by our advertisers; in laying Chaucer under contribution they would at once make a show of originality, and assist in popularising afresh the greatest poet of the Middle English period. Shakespeare's only pharmacist is he of Mantua, whom Romeo bribes to supply the poison of which the sale is a capital crime. Of the apothecary's small part of seven lines, the words,

My poverty, but not my will, consents,

are probably the best-known utterance ever placed in the mouth of a member of the pharmaceutical craft. The apothecary himself is too generally familiar to require quotation. We all remember, too, that after instilling into the "caitiff wretch's" mind doctrines subversive of social order, such as the famous

The world is not thy friend, nor the world's law,

Romeo took care to leave behind a letter giving a clue to the source of his purchase, and we may, therefore, infer that the poor apothecary did not long enjoy the tempter's ducats.

MOLIÈRE'S APOTHECARIES.

My next apothecary takes us a century nearer towards the present time. He occurs in the pages of Molière, a writer who, although taking an especial pleasure in ridiculing the medical profession, only introduces into his comedies two members of the pharmaceutical craft. Both are minor personages. One fills a place in the comedy "M. de

Pourceaugnac" as the satellite of a doctor, whose patients he entertains in the waiting-room with stories of his master's marvellous skill.

In the famous "Malade Imaginaire" we are introduced to Monsieur Fleurant, whose exorbitant bill Argand, the imaginary sufferer, is engaged in checking at the rising of the curtain. Monsieur Fleurant sugars his charges by the most flowery expressions concerning the action of his potions. As thus:—

... The same day an hepatic julep, soporative and hypnotic, prepared to send Monsieur to sleep: 35 sols. ... On the 25th a nice purgative and corrective draught, made up of fresh cassia fistula, with Turkey sauna and other ingredients, according to M. Purgon's prescription, to expel and evacuate Monsieur's bile, four livres, &c.

The play is concluded by a medico-pharmaceutical ballet, which is of special interest, because Molière wrote it on the day of his death, February 17, 1673.

The older writers habitually allude to the apothecary as a personal retainer of the physician. Chaucer, for instance, introduces a doctor of physic who regales his fellow Canterbury pilgrims to a *fabliau* of his own. It is stated of this physician that

Full ready hadde he his apotecaries
To sende him dragges, and his letuaries.

In the seventeenth century, however, the apothecaries in England began to usurp functions properly belonging to the medical profession. This fact is responsible for many scornful allusions to the craft among our poets and novelists. Thus Dryden (Epistle XIII.) writes:—

Th' apothecary-train is wholly blind,
From files a random recipe they take,
And many deaths of one prescription make.
• • • • •
Ungrateful tribe! who like the viper's brood,
From medicinie issuing, suck their mother's blood!

while Pope denounces the apothecary playing the doctor's part "bold in the practice of mistaken rules" with his usual vigour.

We are indebted to that prolific author, Captain Marryat, for the creation of Mr. Phineas Cophagus, the most detailed picture in English fiction of

THE APOTHECARY OF THE GEORGIAN ERA.

No doubt Mr. Phineas Cophagus, in "Japhet in Search of a Father," is a caricature, but such as he is the excellent fellow somewhat relieves the novelist's conception of pharmacists as a pack of scoundrels. Besides Cophagus and his resplendent shop, "double-fronted like Janus," at the corner of Smithfield Market, Marryat has drawn for us Mr. Brookes, the gentle but phthisic assistant; Timothy, the errand-boy; Japhet himself, who afterwards becomes a full-blown apothecary at Reading; and Mr. Ebenezer Peggit, the single-window-shop rival and neighbour of Cophagus. Although sixty years have passed since the first publication of "Japhet in Search of a Father," the book remains popular, and, next to the Mantua apothecary, the chemists in its pages are the most widely-known representatives of the craft in English letters. It is hardly necessary to say that there is no subtle character-drawing in the book, for Marryat was not a psychologist, but simply a story-teller, with a large fund of boisterous Jack-tar humour. But there is a certain pleasant flavour of fun about the doings of Cophagus and his staff, and we feel distinctly sorry when the old apothecary, after having turned Quaker and married, is sent to his grave by one of the mad bulls that were the plague of his life.

An altogether different personage from the dignified Cophagus, though belonging to the same historical period,

is Mr. M'Garry, the West of Ireland apothecary in Samuel Lover's history "Handy Andy." As a character study M'Garry is not worth more than Cophagus; but he and his shop have been turned to excellent use by the author as pegs for several scenes of Irish joviality, with a liberal admixtnre of whisky and free fights. A series of accidents to the unfortunate M'Garry, beginning with the apothecary being chased through the village street by an angry squire, who smashes the stock of the "pharmacopolist," leads to the crowning humiliation of the chemist at a drinking-bout of the Murphys, Durfys, Egans, and other gentry of the neighbourhood. One of M'Garry's weaknesses, viz., to talk learnedly about new discoveries in chemistry, gives his entertainers the clue to a cruel practical joke. They make him hopelessly drunk, strip him, and paint him with alternate purple and black streaks of pickled red-cabbage juice and blacking "until he was as regularly striped as a tiger." There is no necessity to relate the pranks played with poor M'Garry; how the carousers held a sham inquest on him; how the innkeeper hastened to fumigate the room upon being told that the apothecary was dead, and that the stripes betokened putrefaction; how M'Garry himself was informed, on awakening, that he had been "dead" twelve days, and was kept "alive" by galvanism. They are in the best vein of that Ballyhooly humour which is sure long to remain popular.

It would be unfair to accentuate the contrast between the humour of the characters of Cophagus and M'Garry and the delicate touches with which Thackeray has outlined the pharmaceutical career of the elder Pendennis, from his humble beginning as a small apothecary until his culmination in the ranks of the squirearchy. It was in the city of Bath, during the reign of George III., that Mr. Pendennis followed the profession of an apothecary and surgeon, "attending gentlemen in their sick-rooms, and ladies at the most interesting periods of their lives, and condescending to sell a brown-paper plaster to a farmer's wife across the counter, or to vend tooth-brushes, hair-powder, and London perfumery." Thackeray's peculiar vein of cynicism constantly peeps through his references to John Pendennis. He pictures the apothecary curing Master Ribstone, the son of Sir Pepin Ribstone, of an indigestion; his consequent patronage by Lady Ribstone and society in Bath; his gradual withdrawal from the apothecary business, leaving him "with only a little surgery attended by a genteel young man"; his accretion to the ranks of "Gigmania"; and his final transformation into John Pendennis, Esquire, of Fair-oaks, Clavering, who disliked reference to his late surgery as much as Pendennis the surgeon had disliked reference to the bygone drug-shop, and whose son Arthur came to believe in the surgeon as a personage who had come over as court-barber with the Conqueror. There is not much that is noble in the elder Pendennis, but we recognise in him at once the man true to life, whose replica we constantly encounter. Life-like, too, is Mr. Thomas Groffin, the tall, thin, yellow-visaged chemist in the "Pickwick Papers," whom Justice Stareleigh refused to excuse from serving on the jury in *Bardell v. Pickwick*. We only get a glimpse of him as he resigns himself to his task in the horrible knowledge that no one is left in the shop but a boy, whose prevailing impression is that Epsom salts means oxalic acid, and syrup of senna, laudanum; but we feel sure that his voice was one of the first to be raised in favour of the verdict for the plaintiff. With Groffin we arrive at the reign of the chemist, *vice* apothecary, deceased.

As "chemist," too, the craftsman Jenner figures in Charles Reade's "Hard Cash." We do not make the acquaintance of Mr. Jenner in the flesh, but we are told that he was a benevolent old man, who taught the virtues of drugs and minerals to tender youths at the expense of the public. Master Absalom, his assistant, is better as a cricketer than a chemist, and his Latin would scarcely stand the test of the Preliminary examination. Like Molière, Reade was for ever jeering at the medical profession, though we have it on good authority that few men were more confirmed medicine-swallowers than the novelist.

"HERMANN AND DOROTHEA."

There is a slight sprinkling of "apothekers" in German fiction—mostly in humorous novels and in comedies, where they are generally held up to popular derision. The two German apothekers to whom I invite your attention are

the classics of their kind. The first is taken from the pages of Goethe's "Hermann und Dorothea." That poem, probably because it is written in hexameters, has been less frequently translated into English than most other works of the great German. The scene of the poem is a village in the Rhineland, which is disturbed by the passage of refugees who have been driven from their homes on the other bank of the river in one of the disturbances following the French Revolution. The apotheker, who is a friend of Hermann's father, the landlord of the Golden Lion, is a selfish, loquacious, and rather close-fisted grumbler. He has packed up his belongings ready for flight at the first sign of approach of the enemy.

If my assistant remain, I should fly without any disquiet; For if my money is rescued, and my own person preserved, All has been rescued! for doubtless the single man gets off the easiest.

He grumbles because his shop, at the sign of the Angel, is no longer the finest house in the village; its splendours have been eclipsed by the new-fashioned building of the rich merchant, and the apotheker's garden, with its red palings, its "stone figures of beggars," and its coral-and-shell grotto now fails to excite the admiration of strangers as it used to.

Glad should I be to keep pace with the times, and novelty purchase, Off in my house to make changes, but that one fears the least movement. Who nowadays can afford to pay for the numerous workmen? Lately I thought to have new-gilt the figure which stands as my shop sign, The Archangel Michael, with horrible dragon around his feet writhing; But as they are I have left them all dingy, for fear of the charges.

What the meaning may be of the stone-figures of beggars and the parti-coloured dwarf in the apotheker's garden I cannot say. Possibly they have some mysterious reference to his craft. There can be little doubt that Goethe drew from life this pharmacist, whose further adventures in connection with the wooing of Hermann and Dorothea I abstain from relating.

APOTHEKER HEINRICH.

In "Apotheker Heinrich," a novel by Hermann Heiberg, a prominent German author, the characters are almost exclusively medical and pharmaceutical. Herr Heinrich, the proprietor of a prosperous pharmacy in a provincial town of Northern Germany, falls in love with the daughter of a medical man, his friend and neighbour. Heinrich's apprentice, August Semmler, entertains similar feelings for the same young lady, and while the distracted youth drops the shop-bottles he is dusting, cuts the sticking-plaster into bits in sheer forgetfulness, and writes bad poetry, the master, equally preoccupied with other than business thoughts, sits in his private office, and writes orders for 200 cwt. of dried peppermint herb, instead of the few pounds he intends to purchase. Apotheker Heinrich is a fine type of the intellectual barbarian. The educational system he applies to his apprentice consists of blows, tempered with sneers at the youth's inexperience, and he dismisses him unjustly without a character. His treatment of his assistants is equally violent and tyrannical. As for his wife, after a miserable union of some years, he drives her to commit suicide. The novel is full of interesting glimpses of life in a German pharmacy, and the characters and daily occupations of Heinrich's different assistants and apprentices are drawn with a clearness betokening great familiarity with the subject.

M. HOMAIS, PHARMACIEN.

The finest pharmaceutical character, from a literary point of view, in the whole realm of fiction is M. Homais, one of the leading personages in Gustave Flaubert's famous novel, "Madame Bovary." The scene of this story is laid in the hamlet of Yonville, in Normandy, a few years before the Revolution of 1848. The chief characters of the drama are Charles Bovary, a dull-witted but honest country doctor; Emma Bovary, his wife; Leon, a solicitor's clerk; Rodolphe Boulanger, a country gentleman; and M. Homais, the local pharmacien, with his family and his apprentice. It is not necessary to refer to the plot of the story, further than to say that Madame Bovary, after successive intrigues with Rodolphe and Leon, involves her unsuspecting husband in hopeless money-troubles, and, in despair at the result of her extravagance, commits suicide by swallow-

ing arsenic from Homais' poison-cupboard. The grotesquely-comic Homais serves as a foil to the more sympathetic figure of the doctor, and the not entirely abandoned personality of Emma Bovary. The pharmacist is not a pleasant person. He is as self-seeking, mischief-making, conceited, and cringing a snob as can be found in French literature, an ardent village politician, and a sham scientist, always airing his scanty stock of rickety chemistry and dog-Latin. So much for his character. His personal appearance is limned for us as he stands in the public room of the Golden Lion Inn, denouncing the village priest to the landlady of that establishment "A man in green leather slippers, wearing a velvet smoking-cap with a gold tassel, and whose face, slightly pock-marked, expressed nothing but self-complacency, looked around as calmly as the goldfinch in its wicker-cage suspended over his head." As to the pharmacy, plastered all over with advertisements, it is, next to the townhall, the chief glory of sordid, frowsy Yonville.

Homais is shunned by many of the Yonville notables on account of his pronounced anti-clerical opinions. He is fond of addressing imaginary audiences concerning his devotion to Pantheism, and his respect for the deity of Socrates, of Franklin, Voltaire, Béranger. The declaration of the Rights of Man, and quotations from the encyclopædist, loom in his conversation almost as largely as quack chemistry. In defence of these principles, and to the scandal of the town, he has baptised one of his four badly educated, grubby, lymphatic children Franklin (in honour of Liberty), another Napoleon (in honour of Glory), a third Athalie (in commemoration of Racine's masterpiece), and a fourth Irma, a concession to the spirit of romanticism then pervading literature.

Madame Homais is a nonentity, adoring her family and relations, slatternly in her household, always crying over the woes of others, and possessing neither conversational powers nor stays. The pharmacien has literary aspirations. His library, he proudly states, contains the best authors—Voltaire, Rousseau, Walter Scott, and *l'Echo des Feuilletons*, a kind of French *Family Herald*. He also acts as local correspondent for the *Fanail de Rouen*, a provincial newspaper. Homais' pompous references to elementary chemical processes have given him a great reputation among the small farmers of the district, and on market days his shop is crowded. The pharmacien does a great deal of illicit consulting and prescribing, offences severely punished by the French law, which holds the scales scrupulously even between the medical man and the chemist. Poor easy-going Bovary never troubles himself on this score; but his predecessor was less accommodating, and in an early chapter we obtain a delicious glimpse of Homais' fright at a summons to appear before the Procurator of the King at Rouen to answer a secret denunciation for infringement of "the law of 19th Ventôse, An XI., Article 1^{er}." The chemist is ushered into the magistrate's private room, where that functionary, wearing his ermine-trimmed robe and official cap, gives him a terrible dressing-down. "In the corridors outside were heard the heavy boots of the policemen, and a far off sound as of heavy locks closing. The chemist's ears tingled so strongly that he feared an apoplectic fit. He had a vision of underground dungeons, his family in tears, the pharmacy sold up, all the shop-bottles scattered; and after the reprimand he was obliged to take a glass of rum and seltzer-water to restore his spirits"—all of which did not prevent him to take to consulting again when the fright had worn off.

But although a contemptible fellow, Homais is a good pharmacist. His head is as full of formulæ as a text-book, not only for medicines, but for jam-boiling, cheese-preserving, and wine-doctoring.

The climax of the hook is the death of Emma Bovary from arsenical-poisoning. Singularly enough no judicial inquiry whatever is held to unravel the mystery, nor does anyone appear to suspect that the arsenic came from Homais' shop. As the story proceeds the chemist grows more prosperous and conceited. He devotes himself to social questions, begins to blish at being a *bourgeois*, and cultivates artistic tastes, which show themselves in a project for a monument on Emma's grave, consisting of an artificial ruin, a temple of Vesta, a weeping willow, and the motto, *Amabilem conjugem calcas!* He does not give up his shop, but keeps himself abreast of all scientific discoveries.

He follows the rise of the great chocolate-industry. He is the first to introduce *Revalenta arabica* into his district. Pulvermacher's electric dry belts arouse his highest enthusiasm. He wears one himself, and when at bedtime he pulls off his flannel vest, Madame Homais loses herself in hewildered admiration of the golden spiral spring in which he disappears, and feels her affection revive for this gorgeous being, with his Scythian coat of mail and his sorcerer-like splendor.

Still Homais is not happy. He covets the Legion of Honour, and stoops at no intrigue in his determination to obtain it. For a long time he is unsuccessful. In disgust he designs in his garden a flower-bed in the shape of the cross of the Order, with two small bits of turf to represent the ribbon. Around this he walks with folded arms, meditating on the worthlessness of the Government and the ingratitude of mankind, until the curtain falls upon the bestowal of the decoration upon the chemist.

Gustave Flaubert, author of "Madame Bovary," was the son of the principal physician at the Hospital of Rouen, and, therefore, thrown much in the society of medical men, and probably also of pharmacists. It is pretty certain that Homais and Dr. Bovary are sketched from living models. Homais, indeed, is an international character. Everyone of us can recall his prototype among the pharmacists of our acquaintance. Translate Homais from Normandy into an English town, alter his anti-clerical views into any political persuasion known in this country, make him follow, say, the rise of the soap or the mustard industry instead of the *mouvement des chocolats*, replace the Legion of Honour by a knighthood, and you have a character that might step fresh from the pages of any contemporary novelist as a genuinely British product.

There is another pharmacien in French fiction whose sphere of activity is laid in the same district as that of Homais—namely, the Polish chemist Marowsko, in Guy de Maupassant's "Pierre et Jean."

"LE PÈRE MAROWSKO"

is a broken-down Polish refugee, supposed to have passed through a long career of Nihilistic propaganda. In the story, however, he exhibits no savage habits, but peacefully dispenses cheap medicine in a working-class quarter of Hâvre—the mildest-mannered man that ever cut a throat. There is a queer pharmaceutical trait about old Marowsko. He has struck up a friendship with Dr. Pierre in a Paris hospital, and when Pierre takes his degree the chemist unhesitatingly follows the penniless, unknown medical man to Hâvre, and invests his all in a pharmacy there in the hope that the doctor's prospective practice will keep the shop going. Needless to say, Marowsko is disappointed.

Marowsko has a mania for making liqueurs and fruit-syrups, of which he has invented scores without making one single commercial success. His latest is a gooseberry liqueur, from which he expects a fortune. "Four of the largest cafés," he tells Pierre, "have promised to take it up, and the two local newspapers are going to puff it in exchange for a few medicines presented to the editors." The two papers, prominent Hâvre journals, are mentioned by name. I leave yon to imagine what would happen if an English novelist ventured to take such liberties with the names of any of our well-known journals.

Poor Marowsko, with his abortive inventions, always hesitating, always grumbling, following Pierre with dog-like affection, is the unlikeliest ex-Nihilist and the most pitiful pharmacist in fiction.

PHARMACY IN THE "TARTARIN" SERIES.

To Alphonse Daudet; the first living novelist of France, we owe the creation of two pharmaceutical types which will have as lasting a place in literature as Homais. But whereas Homais is the incarnation of the selfish, prosaic, crafty *bourgeois* of the North, the pharmacien Bézuquet, and, still more so, his assistant Pascalon, are representatives of the almost sub-tropical South, utterly foreign to Northern conceptions. The pair play a prominent part in the three novels recounting the adventures of Tartarin of Tarascon. The first of these describes the lion-hunting adventures of the hero in the Sahara; in the second, Tartarin performs grotesque feats of Alpine mountaineering; and in the last he takes a

shipal of his fellow-townsmen, including the pharmacist and his assistant, to a savage island in the Pacific, where a New France is to be founded by colonisation—an enterprise which, of course, ends in disaster.

We are introduced to the Pharmacien Bézuquet in his capacity of a member of the hunting-club of Tarascon. He does not greatly distinguish himself as such. But, though a poor sportsman, Bézuquet is a good pharmacist. When Tartarin goes lion-shooting in Darkest Africa, Bézuquet furnishes the great traveller's medicine-chest, of which, unfortunately, Tartarin is robbed by the natives. Consequently the medicine-chest has never been seen at any exhibition. Having no wife to henpeck him, Bézuquet submits to the benevolent despotism of an aged mother, who keeps the keys of the stock of sweet elixirs with which her son loves to regale his friends. Bézuquet's personal appearance is in singular contrast with the mildness of his character and profession. Tall, bronzed, hook-nosed, a coal-black moustache drooping over his heavy mouth, he resembles a Barbary pirate of the old corsairing days. Disaster darkens his later career. His one ambition is to become a medical man, and that, in France, he cannot hope to attain. So, when Tartarin purchases the Pacific island, Bézuquet joins the adventurers as *médecin-pharmacien* of the expedition. He is caught by the natives, hideously tattooed all over in black and vermillion, and narrowly escapes being eaten up. When the story closes we find him again installed in the old shop. But he never serves customers, on account of the tattoo-marks. Rolling his pestle in speechless anger, he spends his days in dispensing in a back room, periodically inspecting his tattoo-marks in a hand-glass, and wondering to his dying hour whether his escape from the spit is due to the fact that, from lifelong contact with drugs, his person has acquired an odour objectionable to the savage palate, or whether, on the contrary, his captors intentionally reserved him to the last as a delicate morsel on account of his pleasing aromatic flavour.

Pascalon, Bézuquet's assistant, is a lachrymose noodle. Though hardly arrived at the years of manhood, he is completely bald, but his chin is covered with a fair, curly beard. Eyes resembling those of a mad goat, a pink complexion, and a huge bulging forehead complete his personal charms. His master treats him like a child. When Bézuquet goes to the club in the evening, it is thus that he addresses Pascalon: "Courage, child! *Diffrérement*, in thy hands I confide the pharmacy. Should one ask arsenic of thee, supply it not; neither opium, nor rhubarb—supply nothing at all. If I am not back at ten o'clock, close thou the shop and go to bed."

Pascalon forms one of a deputation which is sent to the foot of the Jungfrau to hand Tartarin the banner of the Alpine Club of Tarascon. The assistant's voice is like the bleat of the lamb. His ignorance of the world is intense. When the name of *la petite Scheideck* is mentioned in conversation, Pascalon colours to the root of his beard, as he assumes the reference to be, not to a mountain, but to a lady of questionable character. He accompanies the Pacific expedition as private secretary to Tartarin, who has bestowed upon him the dignity of Grandee of the First Class of the island, with a scarlet Spanish mantle. He remains faithful to the end to his master, sharing Tartarin's return as a prisoner on board of a British man-o'-war, and his subsequent trial for swindling at Tascaron. The accused are honourably acquitted, and the assistant resumes his pharmaceutical career, presiding over Bézuquet's shop in the enforced self-effacement of his tattooed employer. We leave Pascalon nursing an unrequited passion for the daughter of an old noble family in the town, and a budding talent for poetry, which comes to fruition in a volume of love songs called "The Jujubes."

In another of Daudet's books, "Jack," we make the acquaintance of two ladies who may almost be classed as pharmacists. They are Mme. Rivais, the wife of an old country doctor, and her granddaughter Cecile. Morally and intellectually these ladies rank above the masculine pharmacists in my collection, but to my regret neither of them has qualified in the orthodox way for admission into the pharmaceutical craft, and I therefore refrain from including them in my gallery.

So much for the pharmacist in modern French literature. Add to these character-sketches from the pages of the great French novelists a few popular comedies and burlesques in

which chemists are ridiculed, and you obtain a fair idea of what the craft has suffered at the hands of our neighbours' literary men.

MODERN BRITISH PHARMACISTS.

Among our own living novelists there is not, so far as I know, a single one of eminence who has drawn an adequate picture of a pharmacist. A firm of chemists is mentioned in a novel called "Laura Ruthven's Widowhood," published a few years ago, but the characters are scarcely of a kind that are likely to find a permanent place in literature. The humour is of that sort which delights in bestowing upon its creations names that are considered appropriate. Thus, the firm of chemists appear as Pound and Pellet. To them is apprenticed one James Crowe, a vicar's son, who, within half a year of the signing of his indentures, does the bulk of the dispensing. As might be expected, Crowe's blunders in dispensing medicines are described at length, in a manner which is really an elaboration of the Epsom-salts and oxalic-acid incident in the "Pickwick Papers." "Laura Ruthven's Widowhood" is by C. J. Wills and J. Davidson. The last-named gentleman has lately devoted himself to the cultivation of poetry of the fleshy and decadent description.

A chemist named Joseph Blake occurs in a book called "A Modern Minister," of which the author has had the sense to remain anonymous. I refer to this production merely for the sake of rendering my collection as complete as possible. Mr. Blake owns an "eminently genteel" shop in Brighton, a shop "which a duchess might have entered, and where the uninviting odour of drugs was undistinguishable beneath a pleasant cloud of essences and perfumes." The genteel chemist is seated at his desk with one eye on "a monstrous tome of Latin science" and another at his shop crowded with fashionably-dressed purchasers. The circumstance that the author has considerably printed at the beginning of his book a list of *dramatis personæ*, numbering 114, including six clergymen, seventeen members of the nobility and gentry, eighteen spinsters, and nine widows, is my excuse for having deliberately remained in ignorance of the career and ultimate fate of Mr. Joseph Blake.

I am far from suggesting that there are no pharmacists in fiction excepting those I have sketched. My collection consists simply of the chemists whose acquaintance I have myself made in the course of certain dilettante literary quarryings. Considering that about 1,600 novels are published in this country every year, it is indeed probable that many pharmaceutical children of fancy are born to blush unseen and pine away on the twopenny heap of the coster's barrow, among forgotten Romantics and Restoration comedies. In fact, I have observed signs that the pharmacist, or at any rate the chemist, does flourish in odd nooks of literature. Sometimes, for instance, mysterious cuttings have come to me from beyond the Atlantic, like the grasses that drifted across the bows of Columbus's vessels—cuttings indicating that the novel-writer, grasping blindly in the darkness, has touched an unfamiliar subject. A few examples may suffice:—

As the doctor's steel-grey eye turned upon him, the baronet's cheek blanched. With long, accusing finger the physician pointed to a stain, evidently several hours old, upon the baronet's shirt-front. "Ha!" exclaimed the doctor, "what have we here? Chloroform! See, the peculiar deep-blue discolouration which that drug leaves behind!"

In another story the villain poisons a good old man with prussic acid surreptitiously abstracted from one of the carboys standing at the door of the drug-store. A third novelist introduces a heroine suffering from insomnia, whose only means of procuring sleep consists in taking a nightly dose of 30 gr. of hydrate of brucine; yet another causes a murder to be detected by making one of his characters apply his nose to an innocent-looking bottle, and accidentally "catch a whiff of the strychnine it had contained."

These are the first-fruits of awakening consciousness to the importance of pharmacy as an aid to novel-writing. Let us hope that the coming authors will deal kindlier by the craft than their predecessors. How is it, we may well ask, that almost all novelists have habitually bitten the hand that prepared the remedies which restored them to bodily comfort? The pharmacist's ambiguous position between the professional and the trading classes may have rendered him a specially suitable butt for the splenetic writer. Are not

his charges notoriously exorbitant? Eighteenpence for a bottle containing a pennyworth of drugs! Monstrous! Down on the rascal with all the armoury of satire! When an artist like Mr. Whistler declares that he is justified in charging 300 guineas for a sketch which is an afternoon's work because it represents the training of a lifetime, the public applaud the sentiment. When the chemist applies the same principle to an 8-oz. mixture he is dubbed an extortionate cheat. It is all a question of degree.

A few years ago the late R. L. Stevenson urged a friend of his, an English chemist on the Riviera, who had written a novel of which a pharmacist was the hero, to send the manuscript to a London publisher. It was returned with the chilling remark that the public had no interest in chemists, and that therefore the work could not be accepted. That argument appears to me singularly fatuous. At a time when the cry is all for psychological novels, for studies of character, one would have expected from a publisher a better appreciation of the truth of Goethe's saying, "Dip but into the full human life—wherever you grasp it it is interesting." The few examples from foreign writers I have given you show that the pharmacist can be made interesting enough. By virtue of his intimate connection with potent drugs, his association with a science which has achieved some of the greatest triumphs of the century, his relations with his customers, obviously more delicate and human than that of the man who planks down a pound of butter or hangs a beetle-trap from the shelf, one seems justified in regarding the chemist as a particularly promising subject for the writer of fiction. In that belief we may wait patiently for the day when the sympathetic hand of a great English writer shall draw for us the modern pharmacist, with his struggles, his troubles, his weaknesses, his many acts of self-sacrifice and kindness of heart, and light up the sketch with that artist's torch that, "in a trice, life's leaden metal into gold transmutes."

And is it too much to hope that the writer may himself spring from the ranks of pharmacy? Were not Ibsen's first dramas conceived in the Swedish chemist's shop where he served his apprenticeship fifty years ago? Was it not in an apothecary's house at Edmonton that the genius of one of the greatest English poets disclosed itself—the genius of Keats, whom the *Quarterly Review* would have driven back to his pills, his ointment-boxes, and his plasters?

DISCUSSION.

After the reading of the paper, Mr. R. H. JONES, the President, said all would agree with him that the paper was an exceptional one. It was exceptional in the interest it gave to them to listen to it, in its own merit, and in the fact that the subject was a new one to them. He had never heard or read of a paper on the same subject before, and for his own part the pleasure of hearing something new had been very largely enhanced by the admirable way in which the subject had been treated, and the delightful manner in which Mr. Meyjes had read it.

Mr. W. LLOYD WILLIAMS said the subject of Mr. Meyjes's paper was one in which he had taken a special interest for a number of years, and he had taken part in a discussion on the subject which was carried on two or three years ago in the pages of *THE CHEMIST AND DRUGGIST*, of the editorial staff of which Mr. Meyjes was a member. "Japhet in Search of a Father" was a book he would strongly recommend every pharmacist to read, and a proof of its quality was discoverable in the fact that it had just been issued as one of the first numbers of an illustrated edition of the older English novels. Referring to Mr. Meyjes's hopeful anticipation that the pharmaceutical novel might come from a writer within the fold, he ventured to suggest that if the author of the clever sketches which had for some time past appeared in the pages of a popular trade journal were to put his mind to it the pharmaceutical novel might see the light of day. With reference to the MSS. of his friend, the late Mr. W. A. Powell, of Hyères, a word of personal reminiscence might be interesting. The late R. L. Stevenson and Mr. Powell were extremely intimate, and as Powell had a varied experience of life Stevenson urged him to put his recollections on paper. These were written in chapters and submitted to Stevenson, and the impatience with which that celebrated author awaited each successive one might fairly be compared to the eager appetite of a boy who reads "Treasure Island" for the

first time; but the judgment of Stevenson, if we were to believe the publishers' readers, was no indication of the public taste. However, the public—or, at least, the pharmaceutical public—might yet have a chance to judge for itself, as the MSS. was still extant, and Mrs. Powell had agreed to another effort being made to secure publication. In concluding, Mr. Williams proposed a very hearty vote of thanks for the great intellectual treat which Mr. Meyjes had provided.

Mr. ROE seconded the vote of thanks, which was carried with acclamation, and afterwards suitably acknowledged by Mr. MEYJES.

Compressed Tablets.

We borrow the title from the "Spatula" as appropriate for a mass of information which we have lying near us and must compress.

LUMINOUS paints are as dark as night at -140° C.

LIQUORICE-ROOT is largely used as fuel in Afghanistan.

THE United States imports 80,000,000 lbs. of liquorice-root annually.

"OU YOKU ZUKI NIPPON YOKO KIYOKO HO" is the name of the Japanese Pharmacopoeia.

HICCOUGH can be cured with tincture of Indian hemp, according to Dr. Thorp, of Todmorden.

IT is estimated that there are 300,000 persons connected with the drug-trade in the United States.

THE root of *Glycyrrhiza lepidota* grows in the neighbourhood of St. Louis, Mo., and yields an extract which is fairly rich in glycyrrhizin.

DR. WARD COUSINS recommends catheters to be cleaned and sterilised by steam, using an apparatus for the purpose which is made by Maw.

PHOSPHORISED oil is the best remedy for bunions that the *National Druggist* knows of. Rub it in gently twice-daily. It seems to act by absorption.

OILS of lemon and orange have been sent to Canada which were made from fruit grown at Gordon, N.S.W. Messrs. Elliot & Co. say they are good.

GUAIACOL is weaker as a disinfectant than phenol and cresol, and is said to be useless for surgical purposes, although it kills tubercle bacilli expertly.

THE idea of adding pepsin to chewing-gum belongs to a woman—Miss Nellie M. Horton. She gave the idea to the Beeman Chemical Company, of Cleveland, Ohio. It has been a big success.

A BERLIN druggist finds that saffron is adulterated by steeping it in a solution of sodium sulphate, then in one of barium chloride, and drying. About 25 per cent. of barium sulphate is thus added to it.

MALAKIN, according to Dr. Robert Abernethy, is very useful indeed in lowering the temperature, especially in rheumatic fever. Dose: 15 gr. He reports to this effect in the *Edinburgh Medical Journal*.

A QUARTER in New York City is sacred to Chinese wholesale druggists, who obtain most of their stock from China. One firm paid \$45,500 Customs duty last year on 20,000 packages of drugs. Another imports \$10,000 worth of ginseng every month.

DURING the Ashantee war the soldiers used a water-purifying powder devised by Mr. Crookes. It was a mixture of calcium permanganate 1 part, aluminium sulphate 10 parts, and fine clay 30 parts. It was a bit slow for soldiers, but is an excellent purifier.

IT was stated recently at the Society of Arts that Americans consume large quantities of caffeine, in order to secure the stimulating effect produced by drinking good tea, because the tea they drink is poor. This is a mistake. Americans do use more caffeine than any other nation, but most of it goes into headache-cures.

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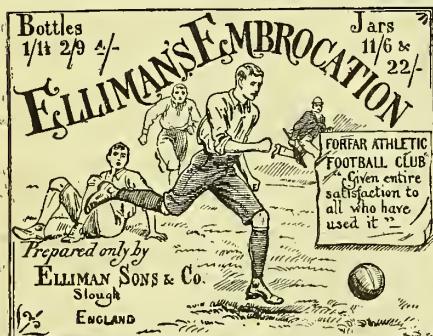
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See page 103.

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Editorial Comments.

MAINTAINING PRICES FOR PROPRIETARY ARTICLES.

It was rather disappointing that the challenge of a discussion on the protection of prices for proprietary articles thrown down in these pages a fortnight ago by Messrs. S. Maw, Son & Thompson was not taken up by some competent debaters. There is much to be said on both sides, and the problem is a growing one. Proprietors are coming to be

convinced that it is not to their lasting interest that their articles should be handled by people who get no benefit out of the trade, and who consequently get to hate the things. Is it reasonably practicable to ensure a moderate profit for every dealer through whose hands the goods have to pass? Messrs. Allen & Hanburys have evidently come to the conclusion that a scheme with this end in view is both practicable and right; Messrs. Maw join issue with them flatly on these two points.

The economic question—the point whether the maker of an article is "justified" in making conditions with his customers as to its resale—which is first raised by Messrs. Maw, offers tempting opportunities for argument, but it seems to us a little Laputan. They are reported to have said that in their opinion it is "not justifiable" to dictate to a person who has bought an article what he shall do with it; and in their signed manifesto they say they consider Messrs. Allen & Hanburys' system "an unwarrantable interference with legitimate business." We confess that we can see nothing unwarrantable or unjustifiable in the imposition of the conditions laid down. Our patent laws, our copyright laws, our licensing laws, all put limits on the right of purchasers of commodities to do exactly what they please with what they have purchased, and it has never been suggested, as far as we know, that such conditions, made by the community in the interests of the community, are in any respect bad in principle. Here the vendor himself makes the condition, but we do not yet see how that can make any difference.

Messrs. Maw go on to declare that many of their customers would object to sign the necessary agreement, and they expect that if they insisted on having such signatures before they supplied the goods they would offend some of their oldest and best friends; which would be very unreasonable on the part of the old friends, seeing that the real offenders would be Messrs. Allen & Hanburys only.

But Messrs. Maw's contention goes beyond this. The A. & H. project, they hold, will not effect the object which its promoters have in view: it will not prevent cutting. All vendors with cutting inclinations will certainly go to the lowest permitted limits, and these "do not allow sufficient margin to pay working business expenses, much less leave a living profit, either to the wholesale or retail trade." These arguments, we fear, are in a great degree sound. There will be an inevitable tendency to drop to minimum prices on the part of cutters, and of those who have to meet cutters, and it may be that in some places retail prices will average lower than before. The extremest form of cutting will be prevented, no doubt, but the protection provided, it must be admitted, is very slender. This consideration encourages the natural repugnance to anything that savours of dictation; and this alliance of objections makes the work of the pioneers in restoring profits particularly difficult.

But it is surely desirable for the sake of the future of the trade that these attempts should be assisted and not hindered. For years Messrs. Ellimans have been alone in maintaining a rigid system of retail prices by means of signed contracts. The adoption of a similar system by Messrs. Allen & Hanburys greatly strengthens the movement. The general adoption of the method which Messrs. Maw look forward to with dread, would be, we should say, an unmixed benefit to retailers, and every adhesion to the system now makes the ultimate result more possible. We can quite believe that to many wholesale dealers the complication of these contracts with the ordinary run of their business will prove a far greater plague than profit. If such firms will only stand loyally aside, as we are certain Messrs. Maw will, and give the scheme fair play, they will be doing

the next best service to cordial co-operation. Indeed, in one respect they will do better. The reduction of the number of channels through which the goods are to pass will help to ensure the smooth working of the process.

THE UNITED ALKALI COMPANY'S POSITION.

IT was not a very cheerful tale that Mr. Brock, the chairman of directors of the United Alkali Company (Limited), unfolded to his shareholders when, at their annual general meeting last Thursday, he rendered the account of the company's business-transactions in 1894. The company have earned just enough to pay the statutory 7-per-cent. interest on their preference shares; the ordinary shareholders receive no dividend whatever. Mr. Brock, by way of solatium for the absence of hard cash, bade the poor shareholders look hopefully for a future of better things, and it would be rather carping criticism to deny the man who has just had to disappoint his co-proprietors in a business the pleasure of painting the prospects of trade as rosy as he can; but we have a distinct recollection that ever since the first general meeting, in spite of falling price and narrowing markets, we have always been assured that the outlook was distinctively hopeful. Unfortunately, the Alkali Company was formed out of the units of an industry which was admittedly in a bad way, and of which the members, had they been left to the tender mercies of unrestricted competition among themselves, would probably, all but a few, have gone under in the struggle before now. The capital and debenture stock of the company—the bulk of which was held at its formation by the owners of the 48 factories whose businesses were bought up by the syndicate—amounts to no less than 8,500,000^l., and there is no doubt that in some respects the concentration of the business of so many scattered works, and the dismantling of antiquated or badly-situated factories, has resulted in considerable saving of labour and other expenses. The company have certainly had to fight with an extraordinary combination of unfavourable circumstances, such as the financial crisis and the tariff disturbances in the United States, where are their best customers, and a disheartening depreciation in the prices of the principal goods manufactured by them. This decline in values is illustrated by the following table, in which the figures relating to the production of the articles are those mentioned in the prospectus at the time of the formation of the company, the present output not being known publicly:—

| | Approximate production | Price March 1, 1894, for 1894 delivery | | | Price March 1, 1895, for 1895 delivery | | | Reduction per ton | |
|-----------------------|------------------------|--|-------------------|----|--|----|----|-------------------|--------|
| | | Tons | £ | s. | d. | £ | s. | d. | |
| Caustic soda .. | 180,000 | | 8 | 15 | 0 | 7 | 8 | 9 | 1 6 3 |
| Bleaching-powder .. | 150,000 | | 7 | 15 | 0 | 7 | 1 | 3 | 0 13 9 |
| Chlorate of potash .. | 5,000 | 7 $\frac{1}{2}$ d. | 68 | 16 | 8 | 41 | 8 | 4 | 27 8 4 |
| Soda crystals .. | 140,000 | | 2 | 18 | 9 | 2 | 6 | 3 | 0 12 6 |
| Soda ash .. | 140,000 | | { $\frac{1}{2}$ 4 | 2 | 6 | 3 | 10 | 0 | 0 12 6 |
| | | | { $\frac{1}{2}$ 4 | 12 | 6 | 3 | 17 | 6 | 0 15 0 |

* Ammonia soda ash.

† Leblanc soda ash.

For the sake of the shareholders we wish we could see some prospect of improvement in prices, but we are afraid that possibility is remote. Not only is foreign competition keener than it has ever been, but there is no prospect that any of the European markets to which British alkali used to be shipped in large quantities will again become as good customers as they were. And, apart from the possibility of

sudden revolutions in manufacturing processes to which such a business as that of the Alkali Company is always peculiarly liable, there has been a decided tendency of late towards emancipation from dependence upon the company on the part of some of its largest customers in this country. An instance of this was given at the meeting, when it was officially admitted that Messrs. Lever Brothers, the soap-makers, are now manufacturing their own alkali, instead of buying it from the company. The Alkali Company have retorted by becoming soap-manufacturers, and in that branch of industry they may find a remunerative field, as they are apparently in a specially advantageous position to make that business pay. In fact, they will probably find it increasingly advantageous to enter into direct relations with consumers of their goods, and to eliminate the middleman to a still greater extent than they have done already.

Another matter mentioned at the meeting roused the indignation of many present, and would probably have resulted in the practical dismissal of at least one of the directors, had not the motion which would have removed that gentleman from his position been declared out of order. Briefly, the facts are these:—It has become known that two of the Alkali Company's directors, who, at the outset, held a considerable amount in shares, have been selling out all their holdings except the amount required to qualify them for directorship—viz., 1,000^{l.} nominal value of stock, in ordinary shares. The names of these two directors—Messrs. Charles Wigg and W. J. Menzies—were freely mentioned at the meeting. Mr. Wigg, who retired from the directorate by rotation, had originally held 1,234 preference and 1,562 ordinary shares. Although this gentleman's name appeared on the list of directors seeking re-election, it was not put to the meeting, as its owner declared, at the eleventh hour, that he was not desirous of serving again. Mr. Menzies—who, at the time of the launching of the company, held 3,437 preference and 5,141 ordinary shares, all of which, with the exception of 200 of the latter kind, he has since disposed of—was re-elected only last year. It is, however, expected that he will take a hint from the proceedings at the meeting and retire now. With regard to some of the other directors, there have been unpleasant rumours of transferences of shares; but these gentlemen, from the President, Sir Charles Tennant, downwards, all explained their action to the entire satisfaction of the meeting. It is well that the matter should have been cleared up in this fashion, for innuendo is always dangerous; and it is now seen that, with the two exceptions we have mentioned, the rumours concerning the company's shares were really due to nothing more worthy than Stock-Exchange manœuvring.

PHARMACOPÆIA REVISION.

THE recent and simultaneous appearance of Supplements to the French and German Pharmacopœias has more than ordinary significance to British pharmacists, since the Supplements show how certain pharmacopœial suggestions for revision look when carried out. Both of them contain one feature which has not been noticeable in B.P. Addenda—viz., corrections of the original text. This feature is one for which much for and against can be said; indeed, that is the case regarding Addenda or Supplements as a whole, for a large proportion of Pharmacopœia purchasers do not buy, and therefore do not use, the B.P. Addendum. The French Codex Supplement contains seven examples of *corrigenda*, which illustrate the possibility of bringing specific articles, already officialised, up to date when Addenda are published. The corrections made are in respect to boric acid (alteration

of solubilities); caffeine, a better statement of its chemical properties, which also may be said of the sodium-iodide *corrigendum*, while that on creosote reflects fully the increased knowledge of the properties of that liquid acquired during the past decade. The other corrections are in respect to formulae. The German *Arzneibuch* has also been amended on a number of points by the *Nachtrag* recently published.

One of the most serious problems of pharmacopœial nomenclature is the naming of synthetic remedies or proprietary medicines. American pharmacists settled the matter so far as their Pharmacopœia is concerned by excluding from it everything of a proprietary character. Thus of synthetic remedies they recognise only acetanilide, while antipyrin gets the cold shoulder, so that nomenclature has been no trouble to them. We English create names for ourselves—*e.g.*, gluside—and so avoid the use of those which are trade-marked, or which are the constitutional names of the articles. The French committee have been bold enough to call things by their names, thus:—

ACIDE ANHYDRO-ORTHOSULFAMIDE-BENZOIQUE.

SACCHARINE. ACIDE ANHYDRO-ORTHOSULPHAMIDE-BENZOIQUE. SULFINIDE-BENZOIQUE.

Saccharina.

Then follow the equivalent and atomic formulae. In those cases where there is a trade-marked name, a foot-note explains the fact. For example, antipyrin (known in the Supplement as "analgesine") and aristol (called "diiododithymol") are so referred to, but are not indexed by the trade-marked names. It is obvious that though the French have taken advantage of a precedent created by the B.P. Addendum in using popular or coined names for trade-marked articles, they also set an example in nomenclature which is of international importance. Whatever may be said at present against constitutional and descriptive titles, there is little doubt that in the near future it will be advantageous to use chemical names where possible. We have to thank the French committee for showing us exactly how this looks when carried out, and the examples favour a general carrying-out of the scheme. There are obvious imperfections, due mainly to the changeableness of chemical nomenclature, but these are not more numerous than in other systems.

The French Supplement consists of four parts. In the first, vegetable *materia medica* is dealt with, the second takes in chemicals, the third galenicals, and the fourth—veterinary pharmacy. The second part includes all the new remedies of importance. In some cases the preparation of salts of alkaloids, or even the preparation of alkaloids, is described; but generally the committee have been content to define principles by characters and tests. The latter are exceedingly good, as a whole, and it is apparent that the B.P. Addendum has been of service to the committee in their work. We shall refer fully to the galenical portion of the Supplement, which is also well done. The German *Nachtrag* consists largely of characters and tests for some new remedies which have come into favour recently, and formulae for preparations, as well as emendations of descriptions and formulae in the 1890 *Arzneibuch*. It, however, preaches but one lesson—the determination of German Pharmacopœia revisers to keep pace with criticism; they seem, indeed, to be rather eager on this point.

ARGON.

M. BERTHELOT, the Secretary of the Academy of Sciences, reports that, in experimenting with argon supplied by Professor Ramsay, he has found that under the influence of the silent electric discharge it combines with various organic

compounds, and notably with benzene. The interest of this, points out the *Times*, is that "M. Berthelot pointed out years ago that nitrogen combines, under the influence of the silent discharge, with hydrocarbons like benzene, with carbohydrates such as go to build up the tissues of plants, and even with tertiary products such as ether. As argon seems to be absorbed in the same way, it would be very interesting to learn whether its compound also yields ammonia on heating, or if not ammonia, then what? M. Berthelot promises further details next week; and meanwhile, we may congratulate ourselves upon having obtained an introduction to this very shy and retiring substance, which, so far as the acquaintance goes, seems to bear a remarkable resemblance to nitrogen." The *Times* seems determined to get argon out of existence, and in its eagerness allows the imagination to make more out of Berthelot's simple experiment than Berthelot himself cares to hazard.

The information which we have received from our Paris correspondent contains more particulars than the *Times* gives. M. Berthelot stated that he had received 37 c.c. of the gas, and mixing it with benzene vapour in a sealed tube passed a current of electricity through the mixture. At the end of ten hours the absorption amounted to 11 per cent.; but it was possible, by increasing the strength of the current, to take the percentage of absorption to 83, and M. Berthelot is confident that an even higher percentage may be combined. The gaseous residue in the tube was a mixture of argon, hydrogen, and benzene. The product obtained was a yellow, resinous body, similar in appearance to that yielded by nitrogen. In concluding his communication, M. Berthelot said that the name "argon," meaning "inactive," is not a well-chosen one for the new body. We note that he made no suggestion whatever, other than is contained in the foregoing, that argon is nitrogen, and this confirms our suspicion that with the *Times* informant "the wish is father to the thought." Whether argon is itself or something else is of secondary importance to the fact that in it we have a body not hitherto observed, and which is proving of the greatest interest to the chemical world. The chemical and physical data of the papers by Ramsay and his colleagues proved beyond question that argon is not nitrogen—at least in its ordinary form.

A LOST CINCHONA-PIONEER FOUND.

MOST of the cinchona—"pioneers," who were connected with the introduction of the quinine-yielding plants from South America into British India and Java, and with the first cultivation-experiments, are now dead. We have from time to time recorded the decease of men, such as Dr. Spruce and Dr. Hasskarl, who had withdrawn from the scene of their life-work and were living in the retirement which they probably liked best, "the world forgetting, by the world forgot." One of the "pioneers" whose death was announced long ago was Mr. Charles Ledger, in whose honour the late Mr. J. E. Howard named the variety of *Cinchona Calisaya* of which the plants were first introduced into commerce by Mr. Ledger, then a more or less itinerant trader in wool, cinchona-bark, and other South American products. Mr. Ledger, like most of his brethren among the cinchona-pioneers, had his troubles with the authorities in the matter of remuneration for his services, but with the establishment, upon a firm basis, of the cinchona culture of the East, the public interest in the men who had brought the first shipments of the plants from South America died out, and one by one the greater number fell out of sight. Mr. Charles Ledger was supposed to have died a good many years ago at Tucuman, in Argentina, well advanced in years,

and in none too flourishing circumstances. His death is recorded in several text-books on cinchona, but when, some time ago, inquiries were made in South America concerning the year of his decease, nothing could be ascertained beyond an assertion that he was no longer alive. Singularly enough, however, we have just received a letter from Mr. Ledger, who is still living, we hope in good health, in New South Wales, and turns out to be a reader of this journal. Mr. Ledger's letter was written principally to throw some light upon the identity and uses of a certain inga-flower which is often found mixed with South American coca-leaves, and on which Mr. R. G. Guyer read a paper at the Chemists' Assistants' Association in December last. Mr. Ledger incidentally refers to his Indian servant Manuel Ynciá Mamani, to whom he was himself indebted for his knowledge of the Ledger cinchona, and who died in consequence of injuries inflicted upon him by the Bolivian authorities for having betrayed the secret of the origin of the best cinchona-bark to a foreigner.

It was in 1865 that Mr. Ledger received from Mamani the first parcel of seed of the cinchona variety which has since been called after him. At that time the cinchona-plantations in British India and Java were in their infancy, and they did not include any of this special variety of the *Calisaya*. Mr. Ledger sent the parcel of seed to his brother in London, who offered it for sale to the British Government. The authorities, however, delayed the conclusion of the bargain, and at last Mr. Ledger disposed of half the lot to Mr. J. W. B. Money, an Anglo-Indian cinchona-planter. The remainder Mr. Ledger sold to the Dutch Government, who made him a payment on account of about 8*l.* 10*s.*, and when it turned out after a year that over 20,000 of the seeds had germinated satisfactorily in Java, made up the sum to 50*l.* Mr. Ledger expressed his satisfaction, and in 1871 wrote from South America, offering to supply more seed on the same terms. The Dutch Government accepted, but, according to Mr. Van Gorkom, the late director of the Java cinchona-plantations, Mr. Ledger failed to send any further supplies. In 1875 he nevertheless petitioned the Dutch Government for a further grant on account of the first parcel, and received 100*l.* in settlement of his claims. At present the Government plantations in Java alone contain many millions of *Ledgeriana* trees, which furnish the most valuable of all the commercial cinchona-barks, the average equivalent of sulphate of quinine in the Ledger bark from the Java Government plantations being 6.50 per cent., that of the *Officinalis* bark only 5.12 per cent., while of the total crop of about 640,000 lbs. in the Government gardens last year, 565,000 lbs. consisted of *Ledgeriana* bark. The late Mr. J. E. Howard was always of opinion that Mr. Ledger had not been adequately remunerated for his services by the Dutch Government; but even if that should be the case (and 150*l.* does not seem an excessive remuneration for the seed from which have sprung three-fourths of the whole cinchona wealth of Java), it would now probably be too late for that gentleman to press his claims with any prospect of success.

It will, however, be interesting to learn how the report of Mr. Ledger's death came to be circulated, and why that gentleman has refrained for so many years from giving any sign of life to the outside world. We hope shortly to be able to clear up this mystery.

THE COCAINE-MARKET.

ALTHOUGH barely a fortnight has passed since the manufacturers of cocaine advanced their wholesale quotation for the hydrochlorate salt to 18*s.* 9*d.* per oz. for 100-oz. lots, a fresh rise of 1*s.* per oz. was announced on Monday, bringing

up the lowest quotation to 20s. 3d. per oz., usual terms. The advance was not altogether unexpected, for it is known that for the moment the cocaine-market is in a very strong position, and those who are supposed to know most about the position of the article and the intentions of the manufacturers (although those gentlemen are busiesslike enough to show their hand as little as possible) profess to believe that the drug is "safe" up to at least 23s. per oz. Be that as it may, the repeated advances have had the effect of creating a fairly large supply of comparatively cheap second-hand cocaine, and there is now no difficulty in picking up a small parcel here and there at 1s. per oz. below the manufacturers' quotations. The existence of such parcels, of which some were contracted for when hydrochlorate of cocaine stood listed as low as 14s. per oz., is of course an impediment to the further rapid advance of the article. It is really instructive to look back upon the extraordinary sensitiveness of the cocaine-market since the beginning of 1894, which, although an uneventful year in most drugs, certainly brought more powerful fluctuations in cocaine than that drug had experienced for a long time. The following table shows the movements in hydrochlorate (100-oz. lots) in the course of the last three years:—

| | 1892 | 1893 | 1894 | 1895 |
|-----------------|---------|-----------|---------|---------|
| | per oz. | per oz. | per oz. | per oz. |
| January | 23 6 | 19 - | 16 - | — |
| February | — | — | 19 - | 18 9 |
| March | 22 - | — | — | 20 3 |
| April | 21 - | — | 18 - | — |
| May | 19 6 | 18 - | 14 - | — |
| June | — | — | — | — |
| July | — | 18 6 | 15 3 | — |
| August | 18 6 | — | — | — |
| September | — | 17 9-15 6 | 16 - | — |
| October | — | 15 - | — | — |
| November | 19 - | 14 - | — | — |
| December | — | 14 6 | 17 - | — |

Cocaine, it will be observed, is now dearer than it has been since the spring of 1892. The low prices which ruled at the end of 1893, and again in May of last year, were probably partly due to the increase in the supply of the raw material, but chiefly to the temporary appearance upon the market of a new manufacturer, who for a short time gave his colleagues much trouble by trying to obtain a footing upon the market. This competition, however, was soon put a stop to, and the first-fruit of its elimination was the advance of the drug from 14s. to 15s. 3d. per oz., a rise which inaugurated a period, now extending over nearly nine months, of gradual advances.

At present the position of cocaine is perhaps as sound as it has been for several years. The revolution in Peru appears to be rather more acute than the average state of ferment of that unhappy republic since the coca-trade became of importance to Europe, and it appears to affect specially the district in which the manufacturers of crude cocaine carry on their business. The supply of coca-leaves may perhaps be interfered with to some extent, although that factor is not likely to be one of long duration. But the cocaine business is in very few hands, both as regards the importation of the "crude" material from South America and its refining in Germany and England, and the manufacturers appear to be working for a rise with remarkable unanimity. We are also informed that the "crude cocaine," which has now almost entirely replaced the coca-leaf as the raw material of the European industry, has recently been much advanced in price, and is in comparatively small supply. At one time the bulk of this drug was consigned to Hamburg, but in the course of the last four or five years a fairly large portion of the Peruvian exports has been diverted

to England. At present the supplies both in Germany and in this country appear to be unusually small, and, according to advices from South America, very little can be expected thence for several months to come.

PROFESSOR DUNSTAN AND THE ACONITINE RESEARCH.

Although the Report of the Research Committee which was presented to the Council of the Pharmaceutical Society at the last meeting has not yet been published, it is now an open secret that the committee have reported that there is no foundation whatever for the allegations of plagiarism which have recently been made, and, further, that in their opinion the claim for priority made by Professor Dunstan and his colleagues over Messrs. Freud and Beck in establishing the constitution of aconitine is fully substantiated by the facts. The report, which is unanimous, is signed by Mr. Carteighe (President), Mr. Cross (Vice-President), Mr. Greenish, Mr. Ekin, Professor E. Frankland, F.R.S., Professor Michael Foster, F.R.S., and Dr. Lauder Brunton, F.R.S. Mr. Schacht, the remaining member of the Committee, we understand, was ill when the Committee investigated this matter, and, therefore, did not sign the report.

H.M. GOVERNMENT AND ADVERTISEMENTS.

Lord Rosebery and his smart young man—Mr. Geo. H. Murray—have composed between them a clever reply to the complaint brought to the Prime Minister's notice of the competition of the Board of Trade with private trade newspaper proprietors by the publication of an official journal for which advertisements are vigorously touted for. Instead of being angry with us for doing this, says Mr. Murray at Lord Rosebery's dictation, you should thank us. By providing this magnificent advertising medium we are giving advertisers such a splendid chance of enriching themselves that they will have more money to spend with you. Besides, we ought to consider their interests as well as yours. It would not be right to debar them from the benefits of such an enterprise. And, moreover, all we aim to do is to make the journal self-supporting. "There is no intention of going beyond this point." It happens curiously that each time the limit fixed has been reached a further extension has been "sanctioned by the Department." Of course, there is nothing serious in all this. If the publication is of national utility, the nation can afford the expense. The Navy costs something, but nobody has ever suggested that our ironclads should become self-supporting by competing with passenger liners. But we may suggest that the Prime Minister's humour might be pressed into the service of the journal in question. We always buy the publication ourselves, but we sometimes question whether anybody else does. A page or two of excellent foolery in the vein of the recent letter would be an attractive feature, and it would be a means of helping to make even such an expensive luxury as a Cabinet Minister self-supporting.

INACCURATE DISPENSING.

Tit-Bits has interviewed Mr. E. Godwin Clayton, F.I.C., F.C.S., whose testimonial to Koko for the hair once stirred the souls of the chemical fellows of Burlington House. It was not for that, however, that *Tit-Bits* approached him, but "with a view to gaining a little information with regard to the nature of the work of the gentleman who guarantees our sugars, jams, hair-restorers, and what not to be genuine." This is not exactly the way the matter should have been put, but we do not quarrel with that. Our objection to the interview is that Mr. Clayton is made to say—

Very often wrongly made-up prescriptions come into my hands to report upon, and it is surprising the number of

mistakes that are made in this fashion. Morphia and other drugs, deadly in large quantities, are mixed in incorrect proportions or substituted for other substances of a different character.

This is a somewhat serious assertion to send forth in such a popular paper as *Tit-Bits*. It conveys a bad impression without saying anything very definite. It asperses a body of careful workers—dispensing chemists—without naming them. We should like to know what Mr. Clayton means by it all. We miss few cases of the kind mentioned by him, and our experience is that, instead of happening “very often,” they are exceedingly rare. Mr. Clayton should correct, explain, or substantiate his statement.

THE GREAT NAPOLEON'S DOCTORS AND PHARMACISTS.

Some ingenious person has been investigating the records of the fees paid by Napoleon I. to his personal staff physicians, pharmacists. In 1810, when the first Empire was at its zenith, this item of the Imperial household amounted, it appears, to no less than 201,700f. Corvisart, the Emperor's body-physician, received 30,000f.; Halle, the “second physician,” 15,000f.; four physicians of the Imperial infirmary, 8,000f. apiece; four other “consulting-physicians,” 3,000f. each. Boyer, the chief surgeon, had 15,000f.; Ivan, the “junior surgeon,” 12,000f.; four surgeons of the Imperial infirmary, 6,000f. each; Jouan, “adjoint et en survivance,” 6,000f.; Lassonfade, another surgeon, 4,500f. and a house at St. Cloud; four “consulting-surgeons,” 3,000f. each; two surgeons “attached to the Imperial infirmary,” 1,500f. each; Dubois, dentist, 6,000f.; Tobias Koenig, “foot-surgeon,” 2,400f.; Deyeux, senior pharmacien, 8,000f.; Clarion, assistant pharmacien, 5,000f. and quarters at St. Cloud; two junior pharmacists, 3,000f. each; Gruelle, senior pharmaceutical assistant, 1,800f.; François Lecœur, junior assistant, 1,500f., and Boudouard, laboratory assistant Imperial pharmacy at St. Cloud, 1,000f.

Student-studies.

IV.

THE Slow Student is like the tortoise in the fable—with a difference. He misses his way and never reaches home. He has all the methodical heaviness, the plodding perseverance, the characteristic lack of brilliancy of his prototype, but his steady persistence avails him nothing in his fruitless struggles on a false scent. On the first day of the college session he arises betimes, shaves carefully, arranges his tie elaborately, and arrives at his college with the porter's matutinal milk. The latter worthy rubs his eyes and gazes at the apparition in blank astonishment melting to scarcely concealed amusement. Nothing but visions of future tips causes him to repress his quite irreverent mirth. The student is surprised to hear that there will be no lectures on the opening day. He wanted to commence his heavy march forthwith, and is much disappointed. Not only are there no lectures, he learns, but no one connected with the college, except the secretary and perhaps the principal, are expected on the first day, and they will not arrive before 11 o'clock. Very disconsolately the student waits in adjoining streets until the indicated hour, and, at the last stroke, enters and pays his fees. He is instructed to look up certain matter for the short lecture on the following day, and goes back to his rooms immediately and commences to do it.

He continues steadfastly as he has begun, and reads regularly from 6 in the morning till lecture-time, and after 10 till past midnight. Then he goes to bed, and wonders what on earth he has been reading about. He does this in

a vacant sort of way, without excitement in the effort or distress in the failure. His intellect is lumpy and dull, and thinking is a great trouble to him. It is at the best a painful task, which he is glad to set aside. It is the same



at his bench. No one listens more patiently to the demonstrators, or reads his text-books more carefully, and, having listened and read, more consistently turns to his test-tubes and ignores his instructions. He takes weeks to accustom himself to his apparatus, and even then uses it in most left-handed way. When he takes his apparatus out of his locker in the morning he does so with the stolid deliberation of a plumber unpacking his tools for a job for which he is to be paid by the hour. He is continually discovering novel misuses for his analytical plant, and when the demonstrators point out the conventional uses he is grateful, but shocked. The world is full of surprises for him, but by degrees he grows resigned, and expects nothing but the unexpected. There even grows up within him a wild delight in unchained events, and a savage pleasure in chemical irresponsibility.

If you happen to have the bench beneath him, or above him, or next him, or anywhere within his destructive radius, you cannot teach him, even with the heavy end of your burette-stand, that it is unadvisable to add strong sulphuric to boiling solutions. Obstinacy is one of his strong points, and if you swear at him for half-an-hour by the clock, and exhaust the epithet-resources of an inventive century for his benefit, he will go on in his old sweet way, just as hopelessly as ever. Obstinacy is a quality conferring upon fools the semblance of firmness, and he is loth to part with any of his good qualities. You cannot disturb the masterly inactivity of his brain: he may consent to turn a serene lack-lustre eye upon your spotted coat, but you must be grateful for this as a mark of kindly condescension on his part.

There is no hope for him at the examination-tables; he had better start sweeping crossings at once so as not to waste time on his inevitable intermediate stages. He may starve even at this humble employment. One sympathises with the puzzled parents, who have to find a suitable field for his lack of ability. Even Civil Service clerkships are closed to him by competitive examinations, and positions on the attaché staffs of the Embassies are difficult to obtain. He is likely to make a poor show in the world unless he can get into either House of Parliament and become a director of limited liability companies.

CANDID.—The following announcement appears in a shop-window in an old West of England town:—“Blank & Blank, medical herbalists. All deceases treated strictly on herbal principles without the aid of mercury.”

Reviews and Literary Notes.

MESSRS. A. W. MATTHEWS and F. E. Lott have prepared as a micrographic chart nine enlargements of the yeasts and sediments given in their "Microscope in the Brewery and Malthouse." As it is made to hang up on the wall, the chart should be useful to brewers. It is published by Bemrose & Sons (Limited).

A SECOND edition of Dr. George Herschell's very useful treatise on indigestion has just been published (London: Baillière, 5s. net). This work is characterised by a minute carefulness in its suggestions for diagnosis as well as for treatment. The new edition is considerably enlarged, and bought well up to date.

MESSRS. J. & A. CHURCHILL inform us that the book now in course of revision by Professor J. Reynolds Green, of the Pharmaceutical Society, is not, as we stated last week, Bentley's "Structural and Morphological Botany," but the same author's "Manual of Botany." The book is in an advanced state of preparation. Vol. I.—"Morphology and Anatomy"—copiously illustrated, will appear early in April.

AT the present time, when the British Pharmaceutical Conference is much in need of more active support, the *Medical Press* asks medical men to support it. "We have," they say, "in this review tried to show our readers, as far as space would allow, the advantage to be obtained from this great year-book. We hope they will take our advice and become subscribers to it, and if they do we feel confident they will be grateful for the suggestion."

MESSRS. WHITTAKER & CO. will shortly publish a new revised and enlarged edition of "Pool's Practical Telephone Handbook," with added chapters on electrical measurements and metallic circuit working, and a considerable amount of other new matter. The same firm announce the third edition of "Electricity in our Homes and Workshops," by Sydney F. Walker. The chapter on telephones has been rewritten, and a chapter has been added dealing with dry batteries.

THE following are among the announcements by publishers of forthcoming works of interest to pharmacists:—"Index Kewensis," compiled at the expense of the late C. R. Darwin, under the direction of Sir Joseph D. Hooker, by B. Daydon Jackson, part IV. completing the work, to be published by the Clarendon Press. "The Life of Sir Andrew Clark, Bart., M.D., LL.D., F.R.S., President of the Royal College of Physicians of London, Physician to the London Hospital, &c., by Malcolm MacColl, M.A., Canon Residentiary of Ripon, and W. H. Allchin, M.D., F.R.C.P., &c., with an introduction by the Right Hon. W. E. Gladstone. (Longmans & Co.). "Chemists and their Wonders," by F. M. Holmes, in the "World's Wonders" series (S. W. Partridge & Co.). "Invalid Feeding," with hints on diet, by Florence Stackpole (Walter Scott).

MESSRS. J. & A. CHURCHILL have published a fifth edition of "Tuson's Veterinary Pharmacopœia" (7s. 6d.). This edition has been edited by Professor James Bayne, who occupies the chair of chemistry at the Royal Veterinary College, in succession to the late first editor of this work. Five editions seem enough to prove that the book has been found useful, but those who expect it to be filled with useful veterinary formulæ are likely to be disappointed. Mainly it is a reprint of the British Pharmacopœia, and reproduces generally the descriptions of drugs, the processes for manufacturing chemicals and for preparing galenicals, and the characters and tests given in that volume. The doses and uses and mode of application of medicines for animals are of course appended, and a few formulæ for balls, ointments, &c., specially required for veterinary pharmacy, are interpolated. But certainly the veterinary information of the volume could

be given in one-tenth of the space. Under *spiritus methylatus* we find a note which may lead some practitioners astray. The note reads as follows:—

Uses.—As a substitute for the more expensive spirit of wine in the preparation of tinctures, &c., for external use only. The law forbids methylated spirit, or any preparation containing it, to be used internally.

Anyone would suppose from that that it would be legal to make any tincture with methylated spirit provided it was intended for external application only—a misapprehension which, in the case of friar's balsam, liniment of iodine, and other preparations, has occasioned trouble and expense to a good many vendors.

IN 1893 Dr. Otto N. Witt, the well-known Berlin Professor of Chemical Technology, and Secretary to the German Society of Chemical Industry, received a commission from the Prussian Minister of Education to visit the World's Fair, and report upon the Chemical Section of it and upon the condition of the chemical-industry of the United States generally. The result of Dr. Witt's journey was a most interesting treatise, which has lately been published in book-form under the somewhat lengthy title *Die Chemische Industrie auf der Weltausstellung zu Chicago und in den V.S. von Nord-Amerika* (Berlin: R. Gärtner's Verlagsbuchhandlung). The work is divided in three sections, in the first of which Dr. Witt describes the fuel—petroleum, natural gas, coal, and wood—of the United States. His account of the petroleum-industry is a model of Teutonic thoroughness, combined with a conciseness not always characteristic of German authors. In the space of thirty-nine 8vo pages Dr. Witt gives an excellently-clear outline-history of "earth oil," starting with its geological formation in the sedimentary Devonian stone, and leading right up to a sketch of the refining and barrelling of the oil and the preparation of its by-products. The account of the forest-resources of the States and their reckless exploitation is, however, a very meagre one. From fuel the work proceeds to discuss the inorganic-chemical industries, treating of the acid- and alkali-industries and their raw materials, artificial manures, glass and ceramic, chemical-apparatus, and fine chemicals. Modestly disclaiming pharmaceutical knowledge, Dr. Witt treats very lightly of strictly pharmaceutical exhibits. His comments are quite free from any Chauvinism, and he mentions noteworthy British and French exhibits with as much impartiality as those of his own country. This makes the first of the following sentences all the more humiliating to non-German readers:—

Even more important than the prominence with which German-chemical-industry was represented at Chicago, I consider the fact that the German Chemical Section was the only one from which the visitor obtained the impression of the constant and intimate connection and mutual reaction of Industry and Science. In proving that such is really the case, Germany has given the surest guarantee that her chemical-industry really possesses the factors required for healthy development (*Lebensfähigkeit*).

The concluding chapter, on organic-chemical industry is disappointingly meagre. The little book is clearly printed in Roman letters and is well worth reading by the, fortunately increasing, number of non-Germans interested in chemical-industry who understand German.

New Books.

Garbutt, T. *Tables of Wages at Fifty-four, Fifty-two, Fifty, and Forty-eight Hours per Week*, showing the amounts of Wages from One Quarter of an Hour to Sixty-four Hours, in each case at rates of wages advancing by 1s. from 4s. to 5s. per week. 8vo. Pp. 74. 6s. (Lockwood.)

Herschell, George. *Indigestion: an Introduction to the Study of the Diseases of the Stomach.* Second edition. Post 8vo. Cloth. Pp. viii and 343. 5s. net. (Baillière.)

Lunge, G. *A Theoretical and Practical Treatise on the Manufacture of Sulphuric Acid and Alkali, with the Collateral Branches.* Second edition, revised and enlarged. Vol. 2. 8vo. Pp. 930. 42s. (Gurney & Jackson.)

Potter, S. O. L., A.M., M.D., &c. *Handbook of Materia Medica, Pharmacy and Therapeutics.* Fifth edition. Post 8vo. Pp. xvi. and 806. Cloth 27s. 6d. (King, Manchester.)

Rose, Harry, L.D.S. *Vulcanite Work.* Post 8vo. Paper covers. Pp. iv. and 63. Illustrated. 2s. 6d. (J. P. Segg & Co.)

Constructive Criticism of the British Pharmacopœia.

II.—ALKALOIDS AND ACTIVE PRINCIPLES.

BY D. B. DOTT, F.R.S.E., F.I.C.

EVER since the discoveries of Derosne, Seguin, and Sertürner at the beginning of the century, the alkaloids have deservedly demanded a large share of attention, both from chemists and pharmacologists. Physiologists have looked forward, not without reasonable hope, to the time when all the old galenical preparations—of the stronger drugs, at least—will be abolished, and the desired medicinal effect produced by properly-adjusted doses of the alkaloids and active principles. There would be more than one advantage were this attained. The action of the crude drug is frequently due to a plurality of principles, and although one of these is predominant the action is materially modified by the others. This fact is well exemplified by the effect of an infusion of tea, the action of which in the system is very appreciably different from that of an equivalent quantity of caffeine—the volatile oil, tannin, and other substances modifying the effect. Even in the case where the action of the galenical is due solely to one compound, it might be better to employ the active principle pure and simple, because of the difficulty in devising a practical means of standardising the galenical. In the case of aconite, for example, it would be easy to describe a method for estimation of total alkaloids; but that would be of very limited value, because the proportion of total alkaloids does not bear a constant relation to that of the powerful alkaloid aconitine.

It is evident that, as a rule, more certainty of action is obtained by using a definite weight of alkaloid than by the use of the supposed equivalent of tincture or the like. When two alkaloids of antagonistic action are found together in the same plant, as pilocarpine and jaborine, there is a special reason for preferring an alkaloid to a mere extract of the crude drug. After all is said, however, there can be no doubt that for many years to come, and perhaps for ever, galenical preparations even of the stronger drugs will have their own place and value. It is quite the exception, and not the rule, for congenital alkaloids to be antagonistic. The alkaloids of opium, cinchona, and belladonna, for example, are in each case essentially harmonious in action. It is very possible indeed that the action of the principal alkaloid is sometimes usefully modified by the subordinate alkaloids, so that the preference of an experienced practitioner for the tincture or liquid extract may occasionally, at least, have a scientific foundation. Dr. Stockman recently remarked that laudanum was sometimes preferable to solution of morphine, because the former is more slowly absorbed. The same authority objects to aconitine as being dangerous and superfluous. That is to say, even an advanced pharmacologist is not prepared in all cases to replace the galenical by the corresponding active principle.

In the present British Pharmacopœia fifteen alkaloids are official—viz., aconitine, apomorphine, atropine, beberine, caffeine, cinchonidine, cinchonine, cocaine, codeine, morphine, physostigmine, pilocarpine, quinine, strychnine, and veratrine. Conine is mentioned, but only as inhalation. In the Addendum we have the alkaloid homatropine. In chemical classification it is impossible to draw a hard-and-fast line. There are compounds whose constitution and

character suggest a more or less definitely basic nature, and yet they would not usually be called alkaloids. On looking over the list of official alkaloids, the question is suggested, Can any of these be with benefit deleted, or can any additions be advantageously made? Whether it is a sign that the British Pharmacopœia is in advance of current medical practice, or for other reasons, we are probably right in saying that even of the above limited list of alkaloids about one-half are very little used. It would be safe to say that aconitine, beberine, cinchonine, and cinchonidine might be dispensed with, and one might hazard the opinion that physostigmine, homatropine, and veratrine are not invaluable articles of the *materia medica*.

There will be some difficulty in deciding which additional alkaloids should appear in the new Pharmacopœia. In addition to those already mentioned, the U.S.P. has only hyoscyamine, piperine, and quinidine, which can hardly be regarded as important accessions. Of possible new alkaloids which might with advantage to medicine be introduced, the following most prominently suggest themselves:—Colchicine, emetine, gelsemine, and lobeline. Salts of emetine and of lobeline would be useful accessions to the Pharmacopœia.

There is a general concurrence of opinion, especially among medical men, that the processes given for the preparation of definite chemical compounds should henceforth be omitted. There is something to be said on both sides of the question, and an extreme view of the matter should be avoided. It may be granted that no process should be inserted which could not be carried out in an ordinary pharmaceutical laboratory.

Most of the alkaloids and active principles could, in an emergency, be prepared by any intelligent chemist who had a reasonably good process given him. The products would probably not be so elegant and not so economically made as those from the factories, but no matter. In any case where a method of manufacture is described it should be a practical process. The process given for morphine hydrochloride is fairly good. The Pharmacopœia revisers might reject "the dark fluid which exudes," as it contains but little morphine, and on the small scale would be more troublesome to purify than its value permits. Other improvements would readily suggest themselves to anyone actually working the process. The method for quinine sulphate is a bad one, and might be superseded by some such process as the following:—

The ground bark is made into a paste with solution of soda, and then exhausted of its alkaloids by repeated treatment with a mixture of paraffin and fusel oils. The oils are then agitated with dilute sulphuric acid, which is separated and filtered through charcoal. The acid solution is now heated to near boiling, rendered neutral with soda, boiled for twenty minutes with a little charcoal, filtered, and the sulphate allowed to crystallise. The crystals are collected on calico, and well pressed. The mass so obtained is dissolved in boiling water, the solution rendered slightly acid, digested with purified charcoal, and filtered. On cooling, sulphate of quinine separates in a state of sufficient purity. The crystals are collected, drained, and dried at about 110° F.

The methods for alkaloids generally are defective in the use of extravagant solvents and the employment of too much heat. Atropine, for instance, may be crystallised from solution in light petroleum containing a little chloroform, and should not be purified by repeated crystallisation from hot alcohol.

The expression "active principle" is often used loosely, but is most properly applied to any chemical compound, other than an alkaloid, to which a drug chiefly owes its activity. In this sense there are very few active principles in the Pharmacopœia. They are aloin, chrysarobin, elaterin, salicin, santonin, and picrotoxin. Aloin can only be regarded as the active principle of aloes in a limited sense; but it has some value of its own. Elaterin and picrotoxin are not much wanted, yet must probably be retained. Salicin is the most valuable of these principles, and has come largely into use. It might be well to extend the tests for it, so as to include the melting-point (201° C.), action on Fehling's solution, and effect of solution on polarised light. Similarly, the melting-point (170°) of santonin might be given, and more definite statements as to its solubility.

One hesitates to suggest the addition of more active principles to those already official. Unless we are sure of purity and constancy of composition in a given principle, our "last state is worse than our first." It is safer to work with tincture of digitalis than with a "digitalin" consisting of an indefinite mixture of four principles varying from non-toxic to very toxic. Strophanthin would be a valuable addition; but one is suspicious of a thing which is sometimes crystalline and sometimes amorphous.

As regards the chemistry of the alkaloids and active principles, the Pharmacopœia might usefully be a little more informative than it usually is. It would neither be convenient nor desirable to have the pages of the Pharmacopœia bristling with graphic formulæ and chemical equations. At the same time, it would often be useful to give a partially structural formula, and some prominent facts regarding the composition. For instance, we might be told something more about atropine than that it is "an alkaloid obtained from belladonna." We might be informed that morphine has a phenolic as well as an alkaloidal character, so that it combines with alkalies as well as with acids. Under apomorphine and cocaine the conditions under which they readily decompose should be stated. Substances which are quite dissimilar might be described more fully than merely as "active principles"—for instance, salicin as "a glucoside" and santonin as "an anhydride." Indeed, without converting the Pharmacopœia into a student's text-book, or meeting the extravagant demands of Dr. Lauder Brunton, brief informative notes might frequently be given which would be useful both to the prescriber and pharmacist, and in no wise derogatory to the dignity of the official book of medicines.

Kieselguhr.
By E. J. PARRY, B.Sc.

In a previous note in this journal (vol. xlv. p. 369) I dealt with the chemical analyses of four samples of kieselguhr, and had intended to take some microphotographs of the specimens, but their condition and the extreme want of colour or dark outline rendered this impossible. I have, however, made microscopic examinations of them, and although I do not at all pretend to have identified anything like all the organisms present, I think a brief account of those I have found may be useful. Even with $\frac{1}{2}$ -inch immersion lens with a good condenser and B eye-piece, it is

scarcely possible to make the markings of the siliceous valves clear.

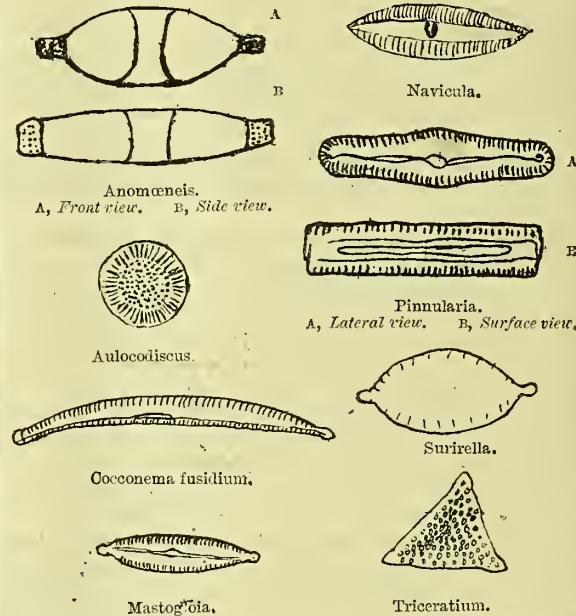
German Kieselguhrs, Nos. 1 and 2.—These two samples were very closely similar. They contained, apart from the actual skeletons of the diatoms, small particles of ferric oxide, &c. The following species were found to be well represented in both. *Cocconema fusidium*, *Anomœnia*, *Pinnularia*, *Melosira*, *Mastogloia*, *Navicula*, and a flat cylindrical species closely resembling *Aulocodiscus*. In No. 2 I found one specimen of *Triceratium*.

Scotch Kieselguhr, No. 3.—As this sample had been calcined the skeletons were very much broken up. The chief point was that the flat cylindrical diatoms (circular on surface view) were almost entirely absent, as far as I was able to see. Only broken pieces of these specimens were found.

Australian Kieselguhr, No. 4.—This specimen was quite different from any of the others in the complete absence of any of the circular (on surface view) diatoms. It consisted entirely of small diatoms apparently belonging to *Navicula*, *Mastogloia*, and *Pinnularia*, with an occasional *Cocconema*, and on one occasion I believe I found *Surirella*.

In all cases where *Mastogloia* was found, there were specimens undergoing division.

My rough sketches indicate the shapes of the species mentioned. It must be understood that the markings are not fully reproduced, nor am I prepared to say that the



identifications are in every case perfectly correct, as the difficulty of examining the specimens was so great as to render the mistaking of certain species for others closely allied an easy matter.

THE COMMERCIAL MORAL WORM has turned at last. A New York journal mentions that a sign in a Broadway drug-store reads:—"We give you what you ask for. No substitutions here." Things must be in a bad way if it pays to put tickets like that in the window.

AS CLAIMED.—Indignant Customer: "That 'one-minute-toothache-cure' you sold me is a fraud, do you hear? It took it almost half an hour to act." Druggist: "How long did it ease your tooth?" "About a minute." "Yes; that's the one-minute part of it."—*Indianapolis Journal*.

The Hieroglyphic Competition.

THE pictorial conundrums on page 118 of our Winter Issue attracted a good deal of attention. But, as we know from personal experience, there is a great gulf fixed between trying to guess the meaning of such conundrums in the family circle and actually taking the trouble of writing out and posting a card on the off-chance of obtaining a prize. The total of 836 post cards which we received must, therefore, be considered fairly satisfactory. Of this number, 93 arrived after the close of the competition, while 12 were disqualified on account of illegibility or for other reasons, leaving an effective total of 731. Not a single one among the competitors was fortunate enough to name correctly the whole of the conundrums. Two succeeded in guessing twenty-one of them, and 8 solved twenty of the puzzles. The competitors who deciphered a smaller number than twenty were as follow:—62 have guessed nineteen, 124 eighteen, 146 seventeen, 123 sixteen, 100 fifteen, 73 fourteen, 34 thirteen, 26 twelve, 16 eleven, 7 ten, 5 nine, while 2 competitors have only unravelled seven, and 2 others only six each of the mysteries. There is one gentleman who has not succeeded in giving more than two correct answers. He may count himself lucky that it has not been his lot to keep a pharmacy on the road to ancient Thebes, for he would certainly have furnished a pleasant breakfast to the Sphinx.

We award a guinea each to the two competitors who have correctly named twenty-one of the "hieroglyphics," viz.:—

MR. H. N. STROUD, 10 FRIAR LANE, LEICESTER, and
MRS. THOMAS WILSON, MARKET PLACE, STOWMARKET,

The correct answers to the conundrums were the following:—1, Boots; 2, Hewlett (Hew-let); 3, Woolley; 4, Beecham (Beech-ham); 5, Preston (pressed on); 6, Truefitt; 7, Oppenheimer (open-eye myrrh); 8, Savory; 9, Cox; 10, Bishop; 11, Hearon; 12, May & Baker; 13, Southall; 14, Morsons (more sons); 15, Armour; 16, Curling; 17, Burroughs ($\frac{1}{2}$ of Burton = "bur"-rose); 18, Herrings; 19, Jeyes; 20, Spratts; 21, Hatrick; 22, Baiss. These may be divided into three categories: (1) The obvious—those who "jump into the eyes," as the French say—such as Nos. 2, 9, 10, 11, 12, 15, 18, and 22; (2) those that admit of different interpretations but to which we gave an arbitrary meaning before the competition opened, and those that are moderately difficult of solution (Nos. 1, 3, 4, 6, 7, 8, 13, 16, 19, 20 and 21); and (3) the "puzzlers," which have been correctly answered by very few, Nos. 5, 14 and 17. We reproduce the last mentioned three:—

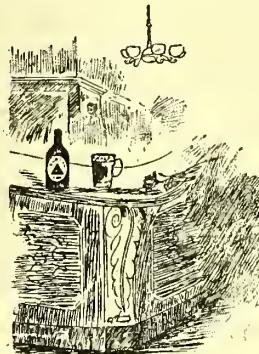


14 (More sons.).

No. 17, we admit, it is almost impossible to guess, owing to the indifferent execution of the engraving. The answer has only been given rightly by eight or ten competitors. The picture is intended to represent a bar with a half-bottle of Burton ale ($\frac{1}{2}$ Burton = "Bur"), near which lies a rose. Four-fifths of the competitors have given this as "Bar-clay," which looks much more likely. Among the prize-winners Mrs. Wilson alone has guessed it, much to our surprise. Bass, Burton, Barron, Harveys, Berend, Corner, Barton, Treatt, Barnett, Fellows, Borrows, A. Bottle, Barrett, Baiss

Brothers, Slack, Barber, "Bar's Welcome" (sic!), Bartlett, Cooper, Allen, Burgoyne, Porter ("Potter & Clarke"), Brand & Co., Spiers & Pond, Newball & Mason, Potter, Ellis ("Alehouse"), and Drysdale are among the solutions offered.

The "babes in the wood" (No. 14) have given rise to a really remarkable divergence of opinion. Mor(e)s sons, the correct solution, was offered only by a small number of competitors. Others gave "Mawsons" and "Masons." A.



17 (Bur-rose).



5 (Pressed-on).

few adopted firms having the word "brothers" or "sons" in their style, without apparent regard to the special application of the name to the picture. "Patersons," Shirley ("Surely") Brothers, Johnson & Johnson, Jack(s)ons, Parsons, Boyce (boys) Brothers, Tusons, and Twinberrow are among the best of these. "Pears" (variously explained as either *Pire* or *Pair*), "Fellows," and "Bourne" were favourites. Then there were guesses, mostly sent in, we suppose, by bachelor competitors which professed to see in the picture a joyful occurrence, likely to stand for such a name as "Toogood," "Treatt," "Joy," "Wellcome," or "Jolly." Others thought of more or less complimentary references to the infants: "Fairchild," "Spratts," "Facsimile Apparatus Company" (sic!), "Guys," Newball (new bawl), Howell, Bratby, Tyner, and Fullwood & Bland. Then there were the infants' foods: "Nestle," "Mellins," and "Benger;" and, finally, names indicating surprise or disgust, such as "Evans, Sons" (eavens, sons!), "Howard" (how 'ard), and, we regret to say, "Odam." "Dodge & Olcott" (all cot), and "Wright, Layman & Umney" ("right, Layman; and 'ow many?") are examples of ingenious punning.

The following are the principal solutions offered for No. 5 (Preston):—Coleman, Cadbury, Bygrave, Gale, Felt-on, Guy, Howlett (howld 'at), Chevalier, Holloway (howl-away), Truefitt, Tyler, Christy, Isaacs, Attfield ('at, feel it), Jolly, Breeze, How-ard, Youldon (ye old 'un), Slack, Snowd-on, Keene, Hatton, Pinchin, Izall (eyes all), Muter (mute, ah!), and Walker.

Here are a few more guesses taken at random:—

1. Warner, Dun, Pears, Fellows, Pinchin, Sizer Brothers.
6. Idris (I-dress), Longmans, Chevalier, Taylor, le Page, Champion, Aspinall (I-spend-all), Automatic Supply Company.
8. Hovenden (oven, done), How-ard, Berd-oe, Wellcome, Treatt, Gostling, Levermore.
9. Bird & Storey, Cocking, Allcocks, Schering, Cockle, Woodcock, Maws.
16. Idris (I-dress), Silverlock, Ayer ('air), Blondeau (Blonde-oh!), Bell, Heron, Frizetta, Crispe, Kearley & Tonge's (curly & tongs), Youldon (ye old 'un), and Tyner (Tie-er-'air, sic!).
18. Battle, Pfäster, Pears, Champions, Box & Co., Fish Biscuit Company.
20. Brand, Lie-big.
21. Jewsbury, Isaacs, Lie-big, Christy, Attfield, Géraudel's Pastilles.
22. Boehm (boom), Treble, Sellers ('cello), Airs, Bars, Bow.

HE HAS A GRIEVANCE.—A subscriber tells us that a local doctor borrows his CHEMIST AND DRUGGIST, and seldom returns it. He must like it well.

New Companies and Company News.

JABOO (LIMITED).—Capital 3,000*l.*, in 1*l.* shares. Objects: To acquire, develop, and turn to account certain undescribed inventions, to enter into an agreement for the purpose, and to import, sell, deal in, and turn to account moss, moss-litter, peat, and other fibrous substances, fertilising compounds or liquids, manure, chemical and other preparations, drugs, and other articles. The first subscribers (who each take one share) are:—C. H. Thompson, J.P., Eastcliff, Teignmouth; H. St. J. Kneller, Eastcliff, Teignmouth; P. C. M. Veitch, Exeter, nurseryman; H. G. Hodgkinson, City Chambers, Exeter, broker; C. T. K. Roberts, Fairhill, Exeter, solicitor; C. W. M. Greenhill, J.P., Puriton Manor, Bridgewater; E. V. Thompson, Westhay, East Sheen, S.W., Esq. The first directors (to number not fewer than three nor more than seven) are the first six subscribers. Qualification, 50 shares. Remuneration, 5 per cent. on the net annual profits, divisible.

WILLIAM ESPLEY & CO. (LIMITED).—Capital 10,000*l.*, in 5*l.* shares. Objects: To acquire, take over as a going concern, and carry on the business of a manufacturing chemist carried on by William Epsley under the style or firm of “William Epsley & Co.” at Chesterton, Newcastle-under-Lyme, Staffordshire, and to enter into an agreement with him for the purpose. The first subscribers (who each take one share) are:—W. Epsley, Beasley House, Chesterton, chemical-manufacturer; J. Birks, Cobridge Hall, Stoke-on-Trent, brick and tile manufacturer; Miss H. Birks, same address; J. J. Holden, Princes Road, Hartshill, Stoke-on-Trent, clerk; F. C. Mayer, 13 Moorland Road, Burslem, solicitor; E. Holland, Porthill, Stoke-on-Trent, clerk; H. Crutchley, M.D., Holmcroft, Alsager, Cheshire. The first directors (to number not fewer than three nor more than five) are Henry Crutchley, John Birks, and Francis Creed. Qualification, 100 shares. Remuneration, as fixed by the company.

ELLISON & MITCHELL (LIMITED).—Capital 12,000*l.*, in 10*l.* shares. Objects: To enter into an agreement with Henry Ellison, and John Jones and Edward Kettle (the executors of W. H. Mitchell) for the purchase of the chemical-works at Kilnhurst, near Rotherham, Yorks, belonging to Ellison and Mitchell, and to carry on the business of chemical manufacturers, refiners and merchants, tar-distillers, &c. The first subscribers (who take one share each) are:—H. Ellison, Cleckheaton, tar-distiller; H. Ellison, jun., Cleckheaton, manufacturing chemist; Mrs. M. A. Ellison, Cleckheaton; G. W. Mitchell, Kilnhurst, foreman; Mrs. E. Mitchell, Kilnhurst; J. T. Worth, Swinton, near Rotherham, bookkeeper; J. F. Dyson, C.A., Queen Street, Huddersfield. The first directors (to number not fewer than three nor more than five) are Henry Ellison, managing director for five years; Henry Ellison, jun., and George W. Mitchell. Qualification, ten shares. Remuneration, as the company may decide. Registered office, the Don Chemical-works, Kilnhurst, near Rotherham, Yorks.

BRITISH COLUMBIA OIL AND GUANO COMPANY (LIMITED).—Capital 20,000*l.*, in 5*l.* shares (3,500 preference), to enter into an agreement with Walter Pears, and to carry on the business of manufacturing, refining, and dealing in guano, oils, fats, manures, fertilisers, bone-products, animal-charcoal, glues, sulphate of ammonia, and other chemical products. The first subscribers (who each take one share) are:—H. G. Nicholson, 23 Birch Lane, E.C., underwriter; H. S. Pears, 79½ Gracechurch Street, E.C., tea-importer; J. Richardson, 125 Claremont Road, Forest Gate, secretary; R. C. Lepper, 35 Brooke Road, N., agent; A. R. Braine, 17 Bedford Gardens, Ilford, clerk; E. E. Hill, 4 Chatham Road, South Woodford, underwriter; E. A. Longley, 8 Tachbrook Street, S.W., insurance-broker. The first directors (to number not fewer than two nor more than six) are to be appointed by the subscribers. Qualification, 100*l.* Remuneration, as the company may decide.

BLOOMSBURY MANUFACTURING COMPANY (LIMITED).—Capital 2,000*l.*, in 1*l.* shares. Objects: To acquire and

carry on the business of dealers in extracts of meat, jams, sauces, pickles, &c., carried on at 55 Gloucester Street, Bloomsbury, and elsewhere, as “The Dickson Concentrated Beef-tea Company,” and “The Bloomsbury Manufacturing Company,” and to enter into an agreement with Donald W. Dickson. The first subscribers (who each take one share) are:—D. W. Dickson, 55 Gloucester Street, Bloomsbury, manufacturer; Mrs. J. T. Dickson, 10 Stanley Road, Margate; W. H. Stacpoole, 51 Westbourne Park Crescent, W., barrister; J. Moynihan, 57 Huntley Street, W.C., commercial traveller; F. Spalding, 1 Penton Place, King’s Cross Road, W.C., forewoman; W. C. Latham, 47 New Town Road, Brighton, agent; H. F. MacDermott, 43 Great Percy Street, W.C., gentleman. Registered without articles of association.

MEDICAL ELECTRICAL INSTITUTE (LIMITED).—Mr. Justice Stirling made a compulsory winding-up order against this company on Tuesday. The institute was formed, in October, 1894, to take over the business of the Medical Battery Company (Limited).

A. & F. PEARS (LIMITED) announce interim dividends at the rate of 6 per cent. per annum on the preference shares, and 8 per cent. per annum on the ordinary, for the six months ended December 31, being the same as for the corresponding period last year.

The report of Spratt’s Patent (Limited) for the year ended December 31 shows a profit of 26,956*l.* The directors recommend a dividend at the rate of 15 per cent. per annum, making, with the interim dividend, 12½ per cent. for the year, leaving 8,207*l.* to be carried forward.

DUTRELLE & CO. (LIMITED).—In the Chancery Division of the High Court of Justice on Wednesday, March 20, Mr. Justice Vaughan Williams had before him the petition of Messrs. Stumpe & Dussap, a firm carrying on business in Lille, France, of the winding-up of this company. Counsel stated that the company had taken over the business of a M. Dutrelle, who carried on business as a chemist and druggist in Great Tower Street, London. The company was not represented. Mr. Justice Vaughan Williams made a compulsory order.

AUSTRIAN OZOKERIT COMPANY (LIMITED).—The liquidator of this concern has called a meeting of the shareholders for April 19 at 53 Coleman Street, E.C., when the accounts will be submitted. The company was registered on May 28, 1886, with a capital of 800,000*l.*, in 10*l.* shares, to acquire, own, and work the ozokerit mines, lands, minerals, and mining-rights situate at Boryslaw, in Galicia, Austria-Hungary; 970 shares have been taken up, and 5*l.* per share called; 4,435*l.* has been paid, leaving at that time (1889) 415*l.* in arrears. The winding-up resolution was passed in February, 1889.

MALTO-GERM EXTRACT COMPANY (LIMITED).—The shareholders of this company met at the offices, 152 Bermondsey Street, London, S.E., on March 1 last, and resolved on voluntary liquidation, appointing John T. O’Callaghan, of 91 Mayes Road, Wood Green, the liquidator. The undertaking was registered on August 12, 1892, with a capital of 2,000*l.* in 5*l.* shares, to manufacture, sell and deal in malto-germ extract, diastase, concentrated extract of malt, and other chemical products, and to carry on the business of manufacturing chemists and druggists. According to the last return, 192 shares have been taken up, of which 100 were issued as fully paid to Alexander M. Parker, chemical manufacturer, of 114 Fore Street, E.C. The full amount has been called and 460*l.* paid on the remaining 92 shares.

LIVERPOOL BOILER FLUID, DETERGENT, AND DISINFECTANT COMPANY (LIMITED).—In connection with the voluntary liquidation of this company the shareholders have appointed Thomas F. Wild as joint-liquidator with Percy H. Aldrich. The concern was registered on May 26, 1893, with a capital of 75,000*l.* divided into 40,000 “A” and 35,000 “B” shares of 1*l.* each, to acquire and carry on the business of manufacturing fluid compositions for preventing incrustation in steam-boilers, cleansing-fluids, detergents, &c., carried on by Frank Glenfield in London and Liverpool, and the London Zinc Boiler Fluid and Detergent Company, and the Liverpool Boiler Fluid and Detergent Company. Thirty-

five thousand "B" shares have been taken up and issued as fully paid; 13,900 have also been subscribed for, and 15s. per share has been called and paid.

WEST RIDING CANDLE COMPANY (LIMITED).—The shareholders in this concern have resolved to wind up the present company, and to transfer the business to a new company of the same title. For this purpose Richard Sands, of St. Peter's Church Walk, Nottingham, was appointed liquidator on February 2. The company was registered on September 6, 1892, with a capital of 10,000*l.* in 1*l.* shares, to amalgamate the West Riding Candle Company, of Rotherham, with the Sheffield Candle Company, of Heeley Mills, Sheffield, and to carry on the business of candle and soap manufacturers, chemists, tallow-chandlers, and makers of and dealers in oil, colours, tallow, paraffin, wax, &c. The last return, filed on December 17, shows that 4,595 shares have been taken up, and 3,000 of these have been issued as fully paid, while the full amount has been received in respect of the remainder. No chemists are interested as shareholders. Registered office, Talbot Lane, Rotherham.

PHOSPHATE DEVELOPMENT AND FINANCE COMPANY (LIMITED).—Finding that the company cannot continue business on account of its liabilities, the shareholders met on March 14, and passed a resolution for voluntarily winding-up, at the same time appointing F. W. Lord liquidator. The concern was registered on March 5, 1891, with a capital of 15,000*l.* in 1*l.* shares, to acquire any phosphate or other mines, or other property in the U.S.A. or elsewhere, and to carry on the business of phosphate and general miners and manufacturers of and dealers in chemical manures and all other fertilising materials. The last return (filed on January 9 last) shows that 3,567 shares have been taken up, and the full amount called, 3,473*l.* 10*s.* has been paid; 93*l.* 10*s.* is in arrears, and 30*l.* 5*s.* has been paid on 301 forfeited shares. Among the shareholders are Metcalf Baillie, chemist, of 67 Granville Road, Walthamstow, with 100 shares, and George I. J. Wells, chemist, of 47 Parkgate Road, Chester, with 201 shares.

THE BAYLASS DRUG COMPANY, TORQUAY.—At the Exeter County Court on Thursday, March 14, Mr. Clode, of Torquay, applied for a winding-up order in respect to the Baylass Drug Company, carrying on business at 50 Union Street, Torquay. He explained that the Company was incorporated in 1893, the nominal capital being 2,000*l.*, of which 1,000*l.* was paid up, in 1*l.* shares. Being unable to pay its debts, an execution was levied and a quantity of goods sold. The application for a winding-up order was to protect other creditors. Mr. Carter (Torquay) opposed the application on behalf of several creditors. He said that the Company consisted of Mr. William Dale Baylass himself and members of his family, Mr. Baylass holding 1,000*l.* out of the 1,000*l.* paid-up capital. He had incurred debts, and with the view of protecting himself he was asking the Court to wind up the Company. The Judge: Why should there not be a winding-up order in this case? Mr. Carter said because if such an order were granted, Mr. Baylass would shield himself behind it, and would be able to avoid personal liability. He explained that a petition in bankruptcy had been presented against Mr. Baylass. Under a winding-up order, Mr. Baylass, although he was virtually the Company (the odd six 1*l.* shares being held by members for his family), would only be responsible to the creditors for what really belonged to the business of the Company, and they would be unable to touch also his whole personal belongings which they could if he was adjudicated a bankrupt. Mr. Clode contended that, although he could not dispute that Mr. Baylass was the holder of a thousand shares, yet the Company was properly registered, and that being so the law prescribed that the only course under the circumstances was to apply for a winding-up order. Mr. W. Linford Brown (Exeter) also opposed the application on behalf of a creditor. The Judge said he did not think, in the interest of the creditors, he could dismiss the application for a winding-up order at the present moment. He would, however, continue the order restraining any further levy being made until the next Court on March 28. He would then consider the desirability of granting a winding-up order when he heard the application to adjudicate Mr. Baylass a bankrupt.

THE UNITED ALKALI COMPANY (LIMITED).—The fourth annual general meeting of the shareholders in this company

was held at the Law Association's rooms in Liverpool on Friday last. The room was crowded. Sir Charles Tennant, Bart., President of the company, occupied the chair, and was supported by most of the directors. Mr. John Brock, chairman of directors, submitted the balance-sheet, which showed a gross profit for 1894 of 396,358*l.*, compared with a gross profit of 546,021*l.* in 1893, 923,693*l.* in 1892, and 730,891*l.* in 1890-91 (fourteen months). After paying the interest due on debentures, the net sum of 218,156*l.* remained for division amongst the shareholders. The 7-per-cent. interest-bearing preference shares absorbed 191,381*l.* of this amount, leaving 26,775*l.* to be carried over—an insufficient amount to allow for the payment of any dividend to the ordinary shareholders. The value of the property and plant of the company had increased from 7,610,561*l.* at the close of 1893 to 7,676,204*l.* at the close of 1894. The stock of manufactured and other products was valued at 890,489*l.*, against 846,830*l.* the year before. Mr. Brock said the year had been a very bad one for trade, much worse than could have been anticipated. The tariff struggle in the United States seriously reduced the sales to that country, and also adversely affected the home trade. In many cases contracts are made by large users of chemicals for "their estimated requirements," and in not a few of such cases the actual consumption fell from 30 to 50 per cent. below the estimate, showing how much upset were the expectations and calculations of many manufacturers with regard to their own business, and how widely trade depression extended. The company manufacture a large variety of articles, alkali-amounting to only 40 per cent. of the total value of goods delivered last year, and they are constantly adding to their products. The prices of their manufactures had been falling all through the year. In the course of 1894 soda ash fell 14 per cent., bicarbonate of soda 26 per cent., caustic soda 14 per cent., bleaching-powder 12 per cent., and soda crystals 24 per cent. The market for silver, copper, and purple ore was disappointing during the whole year. Wages had been adjusted, equalised, and in some cases reduced. New processes, especially electrical processes, had not been lost sight of, and everything in this direction likely to be useful and profitable had been carefully examined, but, so far, nothing in this direction had been found tempting enough to induce the company to adopt it. Early last year the company completed their contract with the Tharsis-Sulphur and Copper Company (Limited) for the purchase of their metal-extraction works at Widnes. This had improved the company's position in respect to one of their most important raw materials—namely, pyrites—as they are now able to deal with the cinders or refuse from the pyrites they burn in Widnes. Mr. E. K. Muspratt seconded the motion; after which Messrs. Pygott and Cavanagh, shareholders, referred to the alleged selling of shares by directors in the company, and asked for information. The President, speaking for himself, said that he and his family held 20,000 shares, and had never sold one. Several other directors also repudiated the charge of having sold shares. Mr. Snape mentioned that he had investigated the matter, and found that two of the directors had sold the whole of their shares excepting 200, which enabled them to remain on the directorate, the qualifying condition for which was the holding of 1,000*l.* nominal value of stock. The real value of the shares at the present market value was, of course, much below 1,000*l.*, and the two persons referred to were now actually receiving from 50 to 100 per cent. interest on the value of their present holdings in directors' fees. One of these gentlemen actually offered himself for re-election. Referring to the company's new ammonia-soda works at Fleetwood, Mr. Snape said that they were as fine a property as any concern in the world could desire to possess. Mr. Brock, in the course of further remarks, said that the company were now soap-makers in a small way, and intended to go in for the manufacture of soap on a large scale. Messrs. E. Baxter, Holbrook, Gaskell, jun., Dr. McKechnie, and P. J. Worsley were then unanimously re-elected directors. With regard to the two directors who are charged with having sold the bulk of their shares, Mr. Chas. Wigg, preferred to retire. Mr. W. J. Menzies did not come up for re-election on this occasion. Mr. Snape moved that he be removed from his seat on the board; but after some discussion this motion was withdrawn because it was out of order. The matter, however, will be gone into further.

Counter Practice.

RECIPES CONTRIBUTED BY SUBSCRIBERS IN COMPETITION,
AND COMMENTED UPON BY A MEDICAL PRACTITIONER:
WITH TYPICAL PRESCRIPTIONS IN EACH GROUP.

HEADACHE.

BILIOUS.

| | | | |
|------------------|----|----|--------|
| Sodii bicarb... | .. | .. | gr. x. |
| Potassii bicarb. | .. | .. | gr. x. |
| Syr. ammon. co. | .. | .. | iiij. |
| Tinct. zingiber. | .. | .. | iiij. |
| Sp. chlorof. | .. | .. | iiij. |

Inf. gent. co. ad 3j.
M. Mitte 3vij.

Ter die sumend. (28)

Pulv. rhei 3j.
Pnlv. zingiber. jam. 3j.
Sodii bicarb... 3j.
Sp. am. aromat. 5ij.

Aq. menth. pip. ad 3vij.

M. $\frac{1}{2}$ pt. ter die. (149)

Sodii bicarb... 5ij.
Ammon. carb. 3ij.

Tr. limonis 3ss.

Aque ad 3vij.

3ss. t.d.s. (154)

Hyd. c. cretæ... gr. iiij.

P. rhei gr. xv.

Sodii bicarb... gr. v.

M. Ft. pulv. Mitte vj.

Sig.: One at bedtime. (171)

Rest in a dark room and abstention from all food for a few hours will aid the action of these mixtures.

Acid. nit. mur. dil... .. 5ij.

Tr. nuc. vom. 3ss.

Succ. tarax. 3j.

Syr. aurant. flor. 3j.

Inf. chlorate ad 3vj.

M. Ft. mist.

Sig.: A tablespoonful three times a day in a little water. (69)

Resin. podoph. gr. 1

Enonymin. gr. 1

Pil. hydrarg... gr. $\frac{1}{2}$

Pil. rhei co. gr. iiij.

M. Ft. pil.

Sig.: One to be taken at bedtime occasionally, when required. (69)

Blue pill and black draught. (131)

In a decidedly bilious subject I would give 2 gr. of calomel, followed by a draught of eff. sodæ sulph. in the morning.

Pil. hydrarg... gr. ij.

Ext. coloc. co. gr. ij.

" hysoc. gr. i.

M. Ft. pil.

H.s.s. (28)

DYSPEPSIA.

For Fulness after Eating, Bad Taste in the Mouth, Sickness, and General Symptoms of Deranged Stomach with Acidity, want of Appetite, &c.

To my way of thinking, the old-fashioned dec. aloes co. conc. still holds the field in cases of troublesome dyspepsia.

TYPICAL PRESCRIPTION.

Dec. aloes co. conc.

(sine croco) 3ij.

Tinct. capsici 5iss.

Soda biberat. 3ss.

Ext. glycyrrh. liq. .. 5ij.

Glycerin. 5vi.

Aquaæ ad 3vj.

3ss. t.d.s.

Sodii bicarbonatis 3ij.

Pulv. rad. rhei 3ij.

Spt. ammon. aromat. .. 3iv.

Spt. chloroformi 5iss.

Tinct. nucis vomiceæ .. iiij.

Tinct. gentianæ co. .. 3iv.

Syrup. zingiberis 3j.

Aq. menth. pip. ad 3vij.

M. Ft. mist.

Sig.: 3j. ter die ex aq. paulat.

ante cibos sem. hori. (39)

Sodii bicarb... 3ss.

Tr. rhei 3ij.

Spt. am. co. 3ss.

Tr. card. co. 3ij.

Aq. ad 3vj.

One-sixth part 3 times daily. (30)

Pulv. rhei co. gr. xl.

Tr. rhei 3j.

Spt. am. ar. 3ss.

Aq. menth. p. ad 3ss.

Ft. hst. H.s.s. 3iss. (119)

Pulv. rhei gr. iiij.

Ammon. carb. gr. v.

Ess. chlorof. iiij.

Ol. menth. pip. iiij.

Inf. gent. co. ad 3j.

M. Ft. haust.

T.d.s. (16)

Liq. bismuthi 3iss.

Pulv. rhei co. 3iiij.

Ess. menth. pip. 3ij.

Aq. ad 3vij.

M.

3ss. ter in die. (212)

Ammon. carb. 3j.

Pot. bicarb. 3ij.

Pot. bromidi. 3iss.

Tr. nuc. vomic. 3ij.

Inf. rhei con. 3vj.

Aque chlorof. 3vij.

M. Ft. mist.

3ss. t.d.s. ante cibos in aqua. (194)

Sodii bicarb... gr. 64

Mag. carb. pond. gr. 80

Pulv. rhei gr. 32

Tinct. zingiber. 5ij.

Aq. chloroformi ad.. 3vij.

M. Ft. mist.

Cap. 3j. ter in die. (24)

Sodii bicarb... 3ss.

Bismuth. trisnit. 3iss.

Sodii bicarb... 3ij.

Magnes. p. pond. 3ss.

Pulv. rhei 3ss.

Spt. ammon. aromat. 3ij.

Ess. menth. pip. q.s. ad 3j.

M. Ft. mistura.

Cap. 3j. o. q. h. enm. granis v. carbonis salicis in forma tabellæ. (161)

Bism. carb. 3ij.

Sodii bicarb... 3ss.

Mucilag. acacia 3j.

Tr. chlorof. co. 3ij.

Aq. menth. pip. ad 3vj.

M. Ft. mist.

A tablespoonful three times a day in a little water after meals. (84)

Or this powder— (2)

Bism. carb. 3ss.

Sodii bicarb... 3ss.

Pulv. cinnam. co. 3ij.

Ess. m. pip. 3j.

Magnes. carb. pond. 3vj.

M. Ft. pulv.

Sig.: A small teaspoonful three times a day, after food, mixed well in a little milk or water. (84)

In these mixtures an aperient distinctly aids their action.

This group would be effective, but I doubt if their influence would be lasting without proper attention to diet and regimen.

Flatulence is often caused by fermentative changes, and then the following is magical:

TYPICAL PRESCRIPTION.

Liq. hydrarg. perchlor. 5j.

Spt. chlorof. 5ij.

Tinct. cardam. co. 5iv.

Aque ad 3viii.
3j. 4tis horis.

Pot. bicarb. 3ij.
Dec. aloes co. conc. 3iss.
Aque chlorof. ad 3vij.
1/4th part for a dose. (114)

Sod. bic. 3ss.
Tinct. rhei 3ij.

.. zingib. ft. 3j.
Spt. am. arom. 3ij.

.. chlorof. 3ij.
Aque ad 3vj.

Ft. mist. (102)

Cap. 3ss. 4tis horis. (102)

Tr. nuc. vom. 3iss.

Tinct. rhei 3iss.

Glycer. acid. carbolic. 3iss.

Ammon. carb. gr. 80

Sp. zingib. 5vj.

Aq. ad.. 3vij.

M. Dose for adult: 3ss. c. 3ss. aque ter die. (44)

Ext. aloes gr. ij.

P. rhei gr. ij.

Ext. nuc. vom. gr. $\frac{1}{2}$.

M. One at bedtime. (44)

Pulv. rhei gr. 40

Sodii bicarb. gr. 80

Ol. menth. pip. 3vj.

Inf. gent. 3iv.

Aq. chlorof. ad 3j.

Adults, 3j. ter die. Children, 3ss. to 3ij. (210)

Pulv. rhei co. gr. xx.

Tinct. card. co. iiij.

Spt. chloroformi iiij.

" ammoniæ aromat. iiij.

Tr. capsici iiij.

Aq. menth. pip. q.s. ad 3j.

M. Ft. mistura.

Cap. 3j. o. q. h. enm. granis v. carbonis salicis in forma tabellæ. (161)

Bism. carb. 3ss.

Sodii bicarb... 3ss.

Mucilag. acacia 3j.

Tr. chlorof. co. 3ij.

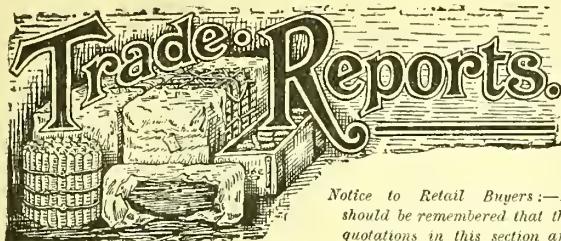
Ess. m. pip. 3j.

Magnes. carb. pond. 3vj.

M. Ft. pulv.

Sig.: A small teaspoonful three times a day, after food, mixed well in a little milk or water. (84)

3ss. vel 3j. ter in die p. c. (143)



Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large

quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable even for manufacturing purposes.

should also be recollect that for many articles the range of quality is very wide.

42 CANNON STREET, E.C., March 21.

Liverpool Oil and Chemical-market.

Our correspondent, writing on Wednesday evening, says:—Our chemical-market continues firm although no great stocks are changing hands; at any rate, as far as sellers are concerned, there is confidence, and if buyers do not show eagerness they have to pay full quotation prices:—*Acids—Boracic*, foreign, 17*l.* per ton f.o.r.; English refined, 30*l.* per ton; *Oxalic*, firm at 3*½d.* per lb; *Ammonia—Sal ammoniac* in fair request, 39*s.* for best and 37*s.* per cwt. for seconds; *Muriate*, scarce, small grain 25*l.*; large grain, 36*l.* per ton; *Sulphate*, quiet at 11*l.* 5*s.* per ton, f.o.b.; *Carbonate*, steady 3*½d.* per lb. *Potashes—Pot* and *Pearl* inactive at 22*s.* 3*d.* and 42*s.* 6*d.* respectively; *Prussiate*, very quiet at 10*d.* per lb.; *Bichromate* steady at 4*½d.* per lb.; *Saltpetre* 24*s.* per cwt. *Soda—Ash*: steady 48-per-cent., 4*l.* per ton; *Caustic*: scarce—60-per-cent. 6*l.* 12*s.* 6*d.*, 70-per-cent. 7*l.* 12*s.* 6*d.* per ton; *Crystals*: quiet at 2*l.* 10*s.* per ton, f.o.r.; *Bicarbonate*: quiet, 6*l.* 15*s.* per ton; *Bichromate*, scarce at 3*½d.* per lb.; *Hyposulphite*, 6*l.* 10*s.* per ton in 1-cwt. kegs; *Silicate*, 3*l.* 15*s.* per ton; *Nitrate*, quiet at 8*s.* 11*d.* per cwt. *Bleaching-powder*, 7*l.* 10*s.* per ton, f.o.b. *Borate of lime* in fair demand at 11*l.* 10*s.* per ton. *Sulphur*, recovered 3*l.* 17*s.* 6*d.* in bags; roll, 5*l.* 5*s.*; flour, 7*l.* 10*s.* per ton. *Acetate of lead*, foreign, 26*l.*; English, 27*l.* 10*s.* per ton. *Copper sulphate* meets with better inquiry at 15*l.* 2*s.* 6*d.* per ton. The oil-trade is steady in tone, but not much doing. *Palm oil* firm, but not many sales, the prices realised being: *Lagos*, 20*l.* 10*s.*; *Cameroon*, 19*l.* 15*s.*; *Saltpond*, 18*l.* 10*s.* per ton. *Cottonseed oil* is weaker, 17*l.* 3*d.* per cwt. *Cocoanut oil*, 23*s.* to 24*s.* per cwt. *Linseed oil*, of Liverpool make, is easier at 21*s.* 9*d.* per cwt. *Castor*: rather firmer at 2*½d.* for *Calcutta* or first pressure *French*. *Olive* remains steady with moderate business at 33*l.* for *Sicilian*, 32*l.* for *Levant*, 39*s.* per ton for *Gallipoli*. *Petroleum* is firmer at 4*½d.* for *Russian*, and 5*½d.* to 7*d.* for *refined American*."

Scotch Chemicals.

Our correspondent writes on Wednesday:—There is only slight alteration in prices since the date of my last letter, and where there is any change it is a downward movement. Inquiries are few, and the market is anything but brisk. *Sulphate of ammonia* has rather unexpectedly declined very considerably, and for prompt makers are now offering at 10*l.* 17*s.* 6*d.* This state of affairs is, to a great extent, owing to forced sales having enabled dealers to bring prices down. *Nitrate of soda* is fairly active at, ordinary, 8*s.* 7*½d.* to 8*s.* 9*d.*; refined, 9*s.* 1*½d.* *Soda crystals* unchanged. *Oxalic acid*, 3*½d.* per lb net, any port. *Bichromate* of potash and soda are, respectively, 4*½d.* and 3*¾d.* per lb. net, for home deliveries, with the usual reduction for export. *Nitrate of lead* is in fair request at 19*l.* per ton, less 2*½* per cent. *Glasgow*. *Sugar of lead*, brown and white, are slightly depressed. In English refined *borax* and *boracic acid* little has been done, and the low prices of 20*l.* per ton net, *Glasgow*, for the former, and 30*l.* per ton net, *Glasgow*, for the latter still rule. Other quotations remain unchanged.

Tyne Chemical-report.

Since last writing on March 6 very little material change has taken place in the market here; its condition is still weak, and prices may be considered as being in buyers' favour. The reopening of navigation in the Baltic ports, which is now imminent, should make matters brisker. Turning to individual products, it may be said that *hypersulphite of soda* still continues in good demand, both for prompt and forward delivery. Makers, however, have little to offer for prompt. Prices have again advanced, and quotations now stand at 6*l.* per ton net for 5 to 7-cwt. casks, and 6*l.* 12*s.* 6*d.* for 1-cwt. kegs. *Sulphate of alumina* and *blanc fixe* have been in moderate request, and especially the latter, many users of the foreign product having run short owing to the long-continued stoppage of navigation on the Continent. *Bleaching-powder* maintains a fairly satisfactory position, and is in good demand at 7*l.* per ton net softs, and 7*l.* 5*s.* per ton hards. *Caustic* and *soda ash* are dull. *Soda crystals* are depressed, and, if anything, slightly lower—casks, 1*l.* 15*s.* 6*d.* per ton net (gross weight); 2-cwt. bags, 1*l.* 15*s.* 6*d.* per ton net. *Recovered sulphur*, in 2-cwt. bags, is nominally 4*l.* per ton, but some little business has been effected at 4*l.* 5*s.* *Chlorate of potash*, 4*½d.* per lb. *Chlorate of soda*, 6*½d.* per lb. *Yellow prussiate of potash* has a downward tendency, and stands at 9*d.* to 9*½d.*, according to quality. *Prussiate of soda*, 7*½d.* In *chloride of barium*, *pearl hardening*, *carbonate of alumina*, *aluminate of soda*, and *silicate of soda* there is no alteration to report.

The Liverpool Drug-market.

Our correspondent, writing on March 20, says that *Gums* are still occupying the attention of buyers but little, *Soudan* sorts meeting with only retail inquiry, and fair consuming quality can be had at 60*s.* per cwt. The available stock of red *Brazilian gum* has been cleared on private terms, but some new arrivals will shortly be offered. Of *Carnauba wax* 50 packages have been sold at prices ranging from 97*s.* 6*d.* to 102*s.* 6*d.*, according to quality. No further business has been done in *Scammony-root* during the week; holders ask 32*s.* 6*d.* per cwt., but this price might be shaded for quantity. *Potashes* are selling ex quay at 22*s.* 3*d.* per cwt., but more money is being asked for parcels on the way. In *Cochineal* more business has been done at 1*s.* 3*½d.* for *black Teneriffe*, and 1*s.* 2*½d.* is asked for *silver grays*. *Quillaia* maintains the advance, and a large parcel afloat has been sold at 12*l.* per ton; holders on the spot are talking of higher prices. In *Bees-wax* there has been considerable movement during the week, 6 packages of *Saffi* selling at 6*l.* 10*s.*, a parcel of *Italian* at 7*l.*, and *Chilian* has realised from 8*l.* 5*s.* to 8*l.* 15*s.* *Canary-seed* has continued to move upward, ordinary selling at 41*s.* per qr., prime *Turkish* 42*s.* 6*d.* *Castor oil* is decidedly better, *Calcutta* good seconds being held firmly at 2*½d.*; *Madras* 1*½d.* to 1*½d.*, *French* first pressure 2*d.*, second pressure 2*d.*. In consequence of the rumoured short crop of *Chilian Honey* this year holders are very firm in their views, and 36*l.* is now asked for pile X. The stocks of *Californian Honey* have been reduced to a very small compass. Of *Cascarilla* ordinary quality, 10 cwt. were sold at 37*s.* 6*d.* per cwt. *Cream of Tartar* is easier at 63*s.* to 64*s.* on the spot for first white crystals. *Anise Chilian* is selling steadily at 23*s.* per cwt. *African Ginger* is easier at 25*s.* per cwt.

The Amsterdam Market.

Our correspondent in Amsterdam, writing on March 20, states that on March 27 307 boxes *Sumatra benzoin* will be sold by public tender. They are estimated to realise from 80*c.* to 100*c.* per $\frac{1}{2}$ kilo. The demand has somewhat relaxed recently. *Cassia Vera*: Of 324 packages which have been placed in public auction recently, only 133 of second quality found buyers at about 14*c.* per $\frac{1}{2}$ kilo. Fine quality has since been sold privately at 24*c.* *Cassia fistula*: The market is very dull, and no business of any importance has been transacted; fine quality is worth from 10*f.* to 11*f.* per 50 kilos.; ordinary qualities only 7*f.* to 8*f.* Of *Cubes* 84 bales have recently been sold at from 14*c.* to 18*c.* per $\frac{1}{2}$ kilo, for bold berries; cultivated quality is in demand, and a small lot of fine quality has been sold at considerably over 30*c.* *Cajuput oil* unchanged; second-hand holders have sold small parcels at 120*c.*; larger quantity could be had at

115c. *Cananga* oil has been in slightly better demand recently, but the prices still remain low. *Gum copal*: At yesterday's public sales 361,300 kilos. of hard, and 66,150 kilos. of soft, quality sold with good competition; hard copal at firm prices, but soft kinds at a considerable advance. The next *Cinchona* auction will be held on April 4. The following quantity has been declared for sale:—Two hundred and forty-three packages from the Government plantations, weighing together 25,000 kilos.; and 5,766 packages from private plantations, weighing 469,477 kilos.

ACACIA.—*Soudan* sorts are in fairly large supply, but at to-day's auctions only 5 packages fair soft ambery sold at 70s. per cwt. Picked *Trieste* gum was also offered in rather large quantity; 6 cases sold, without reserve, at 130s. for medium, fairly pale seconds, and 95s. per cwt. for small to medium yellow picked. Good pale drop is held for 10*l.* 10s. per cwt. Of *Aden* gum, 8 casks fair bright pale and amber, not scented, sold at 50s. to 50*s.* 6d. per cwt. Privately there has been a rather better demand for *East Indian* gums, especially *Ghatti*.

ACID (CITRIC).—Firmly held at from 1*s.* 1*3/4* d. to 1*s.* 2d. per lb. The price of concentrated *Lemon juice* is much dearer in Italy, the present quotation being from 14*l.* to 14*l.* 10s. for prompt delivery, and from 15*l.* to 15*l.* 10s. for future delivery. That is said to be equal to a cost of 1*s.* 3d. per lb. of citric acid. One of the English manufacturers of the last-named article is said to have refused an offer of 1*s.* 2d. per lb. for forward delivery.

ACID (TARTARIC).—Quiet, at 10*3/4* d. to 11*d.* per lb. for English, and 10*1/2* d. to 10*3/4* d. per lb. for foreign brands.

ACONITE.—Five bags of small, but fair, *Japanese* root were bought in at 25*s.* per cwt.

ALOES.—*Caye* aloes is very firm, holders showing no anxiety to sell. Of 25 packages offered to-day 8 sold at 18*s.* to 20*s.* per cwt. for medium, partly drossy, and at 12*s.* per cwt. for common sandy and stony. The best lots were bought in, bids of 23*s.* per cwt. being refused for them. *Curacao* aloes in very moderate supply, and firmly held; of 256 packages, 34 sold at 10*s.* per cwt. for dark and dull quality. Fair liver was bought in at 50*s.* per cwt. There have recently been fresh arrivals of *Socotrine* aloes, of which 96 kegs were shown at auction. No sales were effected. For fair rather dark softish aloes 60*s.* per cwt. is asked.

AMBERGRIS.—No sales were made to-day, although a fair quantity was offered. The market is quiet.

ANISE.—Steady. Fair seed from *Cyprus*, of which 40 bags were shown, is held for 26*s.* per cwt.; good *Spanish* (*Alicante*) for 33*s.* per cwt. A parcel of 20 bags *East Indian* seed sold at 23*s.* per cwt., and 16 bags fair *Italian* are held for 28*s.* per cwt.

ANNATTO.—Six cases good bright seed were bought in to-day at 4*1/2* d. per lb.; for rather ordinary quality from *Coconada* a bid of 1*d.* per lb. was refused.

AROMATIC WATERS.—At to-day's auctions a parcel of *French* aromatic waters was offered, but all bought in: 20 11-gallon carboys triple-distilled *Orange-flower* water at 2*s.* 6*d.* (a bid of 1*s.* 6*d.* being rejected); two 11-gallon carboys *Mint* water were taken out, and 12 carboys *Rose* water bought in at 2*s.* per gallon.

ASAFOETIDA.—There have been arrivals from Persia and India amounting to about 200 cases, of which 75 are in transit. At to-day's auctions 111 packages were offered, the bulk of which is held for high prices. Twenty-two cases from *Bombay* sold at fairly steady rates, mostly loose, partly blocky, grey, and pinky almonds at 100*s.* to 105*s.*; rather more blocky and greyer ditto at 92*s.* 6*d.* to 95*s.*; grey block, pinky mixed, partly dull, 82*s.* 6*d.* to 85*s.* per cwt.

BALSAM (COPAIBA).—Fairly steady. Of 3 packages thick yellow *Maranham* one sold at 1*s.* 7*d.* per lb., showing a steady price. Sixteen cases of thick brown balsam from *Hamburg* were bought in at 1*s.* 3*d.* per lb.

BALSAM (PERU).—Still scarce and firmly held, at 8*s.* 3*d.* per lb. for good quality, unworked, of direct import. It is doubtful whether it would be possible to buy at 8*s.* At

auction 1 case land-carriage was shown, and bought in at 7*s.* 9*d.* the broker asking 7*s.* 6*d.* per lb. for it. There was also 1 76-lb. drum of good quality, "all we could scrape together," said the owner, which was bought in at 8*s.* 3*d.* per lb.

BALSAM (TOLU).—Good quality is worth 1*s.* 2*d.* per lb. At auction only a parcel of spurious balsam was offered, for which there was no bid, even at 1*d.* per lb.

BENZOIN.—After the recent excitement in high-class *Sumatra* benzoin the market has become very quiet, and at to-day's auctions only 16 out of the 208 cases offered found buyers, although, to be sure, the quality was not of a particularly high average. For fine seconds, medium to bold white almonds, very slightly false-packed borders, 10*l.* 10*s.* per cwt. is asked. Good seconds, slightly false-packed borders, sold at 8*s.* per cwt.; ordinary dull false-packed ditto at 6*l.* 15*s.* per cwt. Several parcels of *Penang* gum were bought in at 75*s.* per cwt. for fair almondy, and of *Palembang* at from 30*s.* to 42*s.* per cwt. Of *Siam* gum 16 cases were placed in sale, and 8 of these found buyers, at 10*l.* per cwt. for small to medium almonds in block, 52*s.* 6*d.* per cwt. for dark siftings in hard block (without reserve), and 50*s.* per cwt. for a rather duller lot.

BORAX.—English refined *Crystals*, 20*s.*; *Powder*, 21*s.* per cwt. from the combination manufacturers. Outside makers offer 1*s.* per cwt. below these figures.

BUCHU.—Very quiet. Large arrivals, amounting to about 130 bales, have just been received. At auction 25 bales were shown. Fine long green leaves are held for 7*d.*; rather brownish ditto with a fair flavour were brought in at 4*d.* per lb.; fair round greenish leaves were brought in at 3*1/2* d. per lb.

CAFFEINE.—Very firm. It is doubtful whether any could be had under 16*s.* in the second-hand. The manufacturers do not offer for prompt delivery.

CALUMBA.—Unaltered at low prices. At auction about 400 packages were offered and mostly brought in, a bid of 6*s.* per cwt. for rather dark brown quality being rejected. For fair sorts from 10*s.* to 14*s.* per cwt. is asked; the only lot sold was one of 80 bags rather ordinary brown, which realised 7*s.* per cwt.

CAMPHOR (CRUDE).—Since last week there has been an advance of 10*s.* per cwt. in *Camphor*. Sales have been made of *Chinese* camphor at from 100*s.* to 102*s.* 6*d.*, c.i.f., March-May shipment, and to-day there are no sellers below 105*s.* *Japanese* camphor has been sold also for March-April shipment, c.i.f., and is now held for 115*s.* The excuse given for all this excitement is the expectation that, if the island of Formosa is ceded to Japan, an export duty will be placed upon the drug. The latest mail reports from Hong-Kong are dated February 14. They state that during the past fortnight 2,000 boxes have arrived there from Formosa. There has been a large speculative business, in consequence of the reiterated reports of an impending occupation of Formosa by the Japanese. Unsold stock in Hong-Kong is now about 2,400 boxes. The London market to-day is excited, chiefly, it appears, on account of the statement that *Tamsui*, the shipping port in Formosa, is blockaded by the Japanese fleet. Quotations have risen to 117*s.* 6*d.*, c.i.f. terms, for *Japanese* March-April shipment, while the price of *Chinese* camphor for shipment is very uncertain. It is anticipated that shortly there will be a considerable upward movement, though how long it will last no one would like to say. At auction 29 cases *Chinese* camphor were offered, and were bought in at 110*s.* per cwt., a bid of 102*s.* 6*d.* being rejected for one lot.

CAMPHOR (REFINED).—The English manufacturers, we understand, contemplate advancing the price 1*d.* per lb. all round, but the Germans have given no sign yet—at any rate, up till this afternoon there was no actual change in the quotation.

CANNABIS INDICA.—It is reported that all the London supplies of good quality of this drug have been bought up, and that much higher prices may be anticipated, as the last shipments from India have not been remunerative, and it is impossible to lay down good quality below 5*d.* per lb. in London. At auction, 83 packages of ordinary dusty and stalky herb were held at from 2*d.* to 2*1/2* d. per lb.

CANTHARIDES.—Quiet. Seven cases rather broken Chinese flies were bought in to-day; the price is said to be 1s. per lb.

CARDAMOMS.—At to-day's auctions there was a moderate supply. Fine cardamoms realised very full prices, but medium qualities showed a decline of from 2d. to 3d. per lb. Of 210 packages 154 found buyers at the following rates:—*Ceylon-Malabar*, fair medium brownish, 1s. 8d. to 1s. 9d. per lb. *Ceylon-Mysore*, good to fine bold bright pale 3s. 5d. to 3s. 9d., medium bright palish 2s. 6d. to 2s. 10d., small to medium yellowish 1s. 11d. to 2s. 4d., brownish 1s. 7d. to 1s. 9d., ordinary dull brown 1s. 5d. to 1s. 7d., common very small 1s. 2d. per lb. *Seed* realised 2s. 1d. per lb. *Wild Ceylon* small dull 1s. 10d. to 1s. 11d., medium 2s. 9d. rising to 2s. 11d. per lb. *Mangalore*, fair palish 2s. 4d. to 2s. 5d. per lb. The annual report (for 1894) of the Planters' Association of Ceylon, which has just been published, says:—“During the year 1894 the area planted with cardamoms in Ceylon under eight years old has yielded a good crop, but the older fields have done poorly, and are, in the natural course, gradually going out of cultivation; and as the area suitable for extension is limited the exports may be expected barely to maintain the reduced output of 1894. A remarkable feature of the year is the large falling-off in the exports to British India—from 203,571 lbs. in 1893 to 31,446 lbs. in 1894. This reduction is due to the good prices ruling in London, combined with a low exchange, and to the 5-per-cent. *ad valorem* duty now levied in India on cardamoms.”

CASCARA SAGRADA.—Rather easier. Several lots were bought in to-day; but one parcel of 13 bales, rather dull and small, sold without reserve at 18s. to 18s. 6d. per cwt. For another lot of better quality a bid of 17s. was refused.

CASSIA FISTULA.—Thirty packages of East Indian were offered to-day; they are held at 22s. per cwt. for good, and 19s. for common quality.

CEVADILLA is now offering at 8d. per lb., c.i.f. terms, from Hamburg.

CHILLIES.—Cheaper. Fair stalky *Zanzibar* only realised 21s. 6d., fine picked bright *Japanese* chillies only 5s. per cwt.

CHIRATA.—The only parcel offered to-day was one of 21 bales of spurious quality for Madras; it was withdrawn.

CHLORATE OF POTASH.—Again lower. Sales have been made in Liverpool early this week at 4½d. per lb. f.o.b. Later on, however, the market has become somewhat firmer, and there are no sellers under 4¾d. per lb.

CINCHONA.—At the public auctions on Tuesday a small assortment of bark was offered, viz.:—

| | Packages | Packages |
|-------------------------|----------|----------------------------|
| Ceylon cinchona | .. | 366 of which 366 were sold |
| East Indian cinchona | .. | 1,016 |
| Javan cinchona | .. | 107 |
| West African cinchona | .. | 586 |
| South American cinchona | .. | 150 |
| | 2,225 | 2,106 |

The quality of the bark was mostly inferior, but a rather steady tone prevailed, and nearly the whole quantity sold at a unit of ½d. per lb. The buyers were the agents of the Brunswick Quinine works (121,463 lbs.), Messrs. Howards & Sons (85,717 lbs.), the agents for the Frankfort works (55,821 lbs.), the agents for the Auerbach works (47,210 lbs.), the agents for the American works (27,580 lbs.), the agents for the Mannheim works (30,250 lbs.) and the agents for the Paris factory (9,920 lbs.). Druggists bought 44,900 lbs. The prices paid show no alteration.

At the drug-auctions to-day 62 packages South American *Crown* bark were offered, and mostly sold. *Loxa*, rather broken, grey mixed, at 10d. to 11½d.; *Huanoco*, fair quill, partly damaged, from 8d. down to 3d. per lb.

CLOVES (ZANZIBAR).—Fine bright pale sold at auction at 3½d. per lb. For future delivery the demand has improved slightly, and sales are reported at 2½d. to 2¾d. per lb. for June-August.

COCAINE.—The manufacturers have again raised their prices by 1s. 6d. per oz., making the present quotation as

follows:—For *Hydrochlorate*, 100-oz. lots, 20s. 3d.; 25 to 100 oz. lots, 20s. 6d.; smaller wholesale quantities, 20s. 9d. per oz.; 1-oz. bottles are charged 3d. per oz. extra. It is expected that a further advance will take place shortly.

COCA LEAVES.—Nine bales *Truxillo* leaves were bought in; fine bright green to broken, 1s. 2d.; ordinary dull greenish at 1s. per lb.

COLOCYNTH.—Quiet. For good pale *Syrian* and *Cyprus* apple 1s. 6d. to 1s. 8d. per lb. is asked privately, but at auction 5 barrels fair, partly broken *Turkish* apple sold at 1s. 4d. per lb.; fragments at 11½d. per lb. For 6 cases fair *Spanish* 11d. per lb. is the price, a bid of 8½d. being refused.

CORIANDER.—*Mogadore* seed is very scarce, and a parcel of 30 bags of fine quality which was shown at auction to-day is held at 31s. 6d. English coriander is also scarce, and worth from 31s. to 33s. per cwt. *East Indian*, on the other hand, is plentiful, and several lots were bought in to-day at from 15s. 6d. to 16s. 6d. per cwt.

CREAM OF TARTAR.—Quiet; best white French *Crystals*, 63s. 6d. per cwt.; *Powder*, 65s. 6d. to 66s. per cwt.

CROTON SEED.—A parcel of very dark seed from Coconada was brought in at 32s. per cwt.

CUBEBS.—Considerably dearer, in sympathy with the recent movement in Amsterdam. At to-day's auctions 10 bags fair brownish berries sold at 45s. per cwt., an advance of about 7s. 6d. For another parcel of small dark berries from Singapore not stalky, 50s. per cwt. is the lowest price.

CUTTLE FISH.—Dull of sale. A parcel of small to medium pale mixed bone was bought in at 2d. per lb.

DRAGON'S BLOOD.—There has been a very strong demand lately for dragon's blood in reed, which is very scarce. Sales were made some time ago at 11s. 7s. 6d., and since then an advance has been made privately. At auction to-day one case only was shown; it was a good quality and realised 12s. 10s. per cwt. *Singapore* slabs and saucers are in plentiful supply: 60 packages were all bought in to-day at from 9s. 10s. for good soft fiery, down to 5s. 10s. for ordinary hard. *Socotrine* gum neglected; 8 packages were bought in to-day at 12s. 6d. per cwt.

ELEMI.—Fairly steady. Twenty-five cases somewhat dirty mixed *Manilla*, of good aroma, are held for 35s., and for a paler lot 40s. per cwt. is required.

ERGOT OF RYE.—Slow of sale, and tending rather lower. Fair *Spanish* may be had at 9d. to 10d. per lb. on the spot, *Russian* at 8d. per lb. At auction 14 bags *Spanish* were bought in at from 8½d. to 9d. per lb. for fair.

EUPHORBIUM.—Eight serons ordinary very dusty and woody mixed gum sold subject to approval at 20s. per cwt., very common blocky at 8s. per cwt.

GALLS (CHINESE).—Sales have been made of 200 cases, usual quality, March-April shipment at 49s. 6d. per cwt., c.i.f. On the spot sales have been made of fair quality at 52s. 6d. per cwt.

GAMBOGE.—The supply was fairly large, but of very poor quality. It consisted of 71 cases, of which only 3 sold at 9s. per cwt. for small to medium, partly cakey pipe of dull fracture, and of 8s. per cwt. for ordinary discoloured pickings. The best parcel—one of fair pieces of orange mixed fracture—was bought in at 10s. 10s. per cwt.

GINGER.—*Cochin* quiet, and without much demand. Small sales were made at auction at 72s. to 73s. for fair, bold cut; 47s. to 55s. for small to bold bright native, partly cut. *Ginger (Jamaica)* in rather better demand. At auction about 250 packages sold at from 66s. 6d. to 67s. for medium-washed; 59s. 6d. to 61s. 6d. for ordinary, dull small; and 57s. to 59s. 6d. for common, lean *Rhatoon*.

GUARANA.—Quite neglected. A case of fair sausage was bought in to-day at 3s. per lb.

GUM AMMONIACUM.—In fairly good supply, but rather difficult of sale. Several offers were, however, refused to-day, and the 50 cases brought forward were all bought in. Fair pale almondly, partly seedy block, is held for 40s. per cwt. (a bid of 36s. per cwt. was refused); rather dark mixed block for 32s. 6d. per cwt. (a bid of 30s. being refused).

GUM MASTICH.—In large supply and difficult to sell. Fine quality has realised 2s. per lb. recently.

GUM TRAGACANTH.—A small business is reported in good Persian at a steady price. First quality, 13*l* 5*s*.; second, 12*l*. to 12*l*. 15*s*.; third, 12*l* to 11*l*. 10*s*. per cwt. *Smyrna Tragacanth* in small supply at 12*l*. for first, and from 9*l*. to 11*l*. for third and second quality.

HONEY rather firmly held, *Californian* being dearer. Of 50 packages of that variety 10 sold at 40*s* per cwt. for yellow partly candied. Seventeen packages *Jamaican* honey were bought in at 25*s*. 6*d*. to 26*s*. per cwt. for fair quality. Of *Australian* honey a few lots realised from 21*s*. for liquid yellow up to 26*s*. for fair pale candied. Several lots of *San Domingan* and *Smyrna* honey were bought in.

INDIGO.—The next public sales of *East Indian* indigo will begin on April 5. They will consist of 6,300 chests, of which 3,400 are *Bengal*, 300 *Madras*, 300 *Bombay*, and 1,950 *Kurpah*.

IPECACUANHA.—Quiet, and about 2*d*. per lb. lower for *Colombian* (*Cartagena*) root. *Brazilian* (*Rio*) ipecacuanha is also tending easier, but at auction prices were fairly well maintained, with the exception of one parcel of sea-damaged root, which sold (for account of the underwriters?) at low prices. The following business was done:—*Rio*, 83 bales offered, 22 sold: sound, fair annulated to dull woody, from 4*s*. 6*d*. to 3*s*. 9*d*.; damages, fair stout to dull thin, from 4*s*. 3*d*. down to 3*s*. 8*d*. per lb. *Cartagena*, 17 bales offered, 6 sold: first-class, damaged, 3*s*. 3*d*.; second and third class, from 3*s*. 3*d*. to 3*s*. 1*d*. per lb. About a fortnight ago some 20 bales of *Rio* root were imported into France directly from South America.

JALAP.—At auction nothing was sold, but privately the market is about 1*d*. per lb. easier, fair *Vera Cruz* being now obtainable at 1*s*. 1*d*. to 1*s*. 2*d*. per lb. At auction 25 bales were bought in or withdrawn; small to medium, brown, heavy, at 1*s*. 3*d*. per lb.

KOLA.—Rather easier for *West Indian* kolas, of which 2 packages sold at from 1*s*. 1*d*. for rather dull brown to 1*s*. 5*d*. for fair bright; fine washed quality was bought in at from 1*s*. 7*d*. to 2*s*. per lb. Good *Sierra Leone* chips were bought in at 1*s*. 4*d*. per lb., a bid of 1*s*. 2*d*. being rejected.

LOOFAHS.—Seventeen bales of *Japanese* loofahs, an article which has not been seen at the drug-sales for several years, were offered to-day and bought in; 12 to 20 inches at 2*d*. apiece, and 9*½* to 14 inches at 1*½**d*. apiece.

LYCOPODIUM is dearer, and held for 1*s*. 11*d*. to 2*s*. per lb.

MENTHOL, in sympathy with several other Japanese goods, is considerably firmer. A few days ago the c.i.f. market was 14*s*., but to-day it is said that price has been refined for February-March shipment, and that 14*s*. 6*d*. per lb. is required. On the spot the price has been raised from 15*s*. up to 15*s*. 6*d*., and it is reported that to-day nothing is obtainable below 16*s*. At auction five cases were shown. *Cooking's* brand was bought in at 17*s*. 6*d*.; native brands at 17*s*. per lb.

MUSK.—Very quiet indeed and difficult to place. Of *Tonquin* pods 14 tins of first pile were offered but only one of these found a buyer, at 80*s*. per oz. for small to bold pods thin blue skin and underskin. Grey skin pods with underskin, fair dry, are held for 70*s*. per oz. Of seven packages third pile pods four sold, subject to approval, at 34*s*. per oz. for brown and grey skin and underskin rather damp. Of musk trimmings one package sold at 1*d*. per oz.

MYRRH.—In plentiful supply and very slow of sale. At auction 76 packages were shown, but only 11 of these sold without reserve, at a decline of fully 10*s*. per cwt.; rather dull picked, 77*s*. 6*d*.; fair clean small siftings, 52*s*. 6*d*.; pickings, 28*s*. per cwt. These, however, are exceptional prices.

NUTMEG-PASTE.—Two cases were bought in to-day at 3*½**d*. per oz.

NUX VOMICA.—Unaltered, at the very low prices which have been ruling lately. Of 230 bags the bulk sold at 8*s*. for good bold palish silky from *Bombay*, and 6*s*. to 6*s*. 6*d*. for small hard buttons.

OIL (ALMOND).—The manufacturers of *English sweet oil of almonds* have advanced the price 1*d*. per lb., the quotation

being now 1*s*. 1*d*. per lb. for ordinary commercial, and 1*s*. 3*d*. for pale oil.

OIL (CASTOR).—Quiet. A parcel of 60 cases *Italian* castor oil was bought in to-day, at 3*½**d*. per lb., a bid of 2*½**d*. per lb. being rejected.

OIL (COD-LIVER).—The market is decidedly weak. *Isdahl's* brand of new oil sold yesterday at 140*s*. per barrel "c.i.f." terms. At auction to-day 23 casks were held for 175*s*. per barrel. Five casks *Newfoundland* oil are held for 4*s*. 6*d*. per gallon. The fishing in Norway has greatly improved, and up to March 18 20 millions of fish had been caught, but the livers remain lean.

OILS (ESSENTIAL).—*Eucalyptus oil* is quite neglected, and the eagerness with which owners continue to offer large parcels at auction only accentuates the dullness of the market. Seventy-seven cases were offered to-day, but only 6 sold, without reserve, at 12*d*. to 12*½**d*. per lb. for fair oil from *Sydney*. Five bottles *Vétiver* oil (*Réunion*) were bought in at 4*s*. per oz. For *East Indian Geranium* (rose) oil 4*½**d*. per oz. is asked: 1 parcel was bought in at 6*d*. per oz. Two cases *HIGH Spearmint* oil were bought in at 9*s*. 6*d*. per lb. Of *Cinnamon oil* 5 cases, of very bitter taste, sold without reserve at 3*½**d*. and another lot at 5*d*. per oz. "*Cinnamon bark*" oil was bought in at 1*s*. per oz. Nine cases *Cajuput* oil are held for 2*s*. 6*d*. per bottles, and of *Fisher's Nutmeg* oil four cases were bought in at 8*d*. per oz. *Japanese Peppermint* oil is still held for unchanged prices, but it is anticipated that prices may advance shortly. The current quotations are 8*s*. 3*d*. to 8*s*. 6*d*. per lb. for 40 per cent., and 7*s*. per lb. for dementholised oil. Sales of *Citronella* oil in tins have been made at the end of last week at the price of 10*½**d*. per lb., c.i.f. London, steamer shipment until the end of June; about 5 tons are said to have changed hands this way. This price shows a somewhat firmer market; on the spot sales have been made at 13*d*. to 13*½**d*. per lb. *Star anise* oil very fairly held. It is said that sales have been made on the spot at 6*s*. per lb., and that 6*s*. 1*d*. to 6*s*. 2*d*. is the price now. There is at present a very considerable stock here. For shipment, no oil can be had below 5*s*. 11*d*. per lb., c.i.f. terms, which is of course much too dear compared with the London price. *Cassia oil*: slow of sale, but at unchanged quotations. The essential oil plants in the Mitcham district are said to have suffered a great deal from the frost. This applies especially to the *Chamomile* and *Lavender* plants, which are much less hardy than the *Peppermint*. It is of course too early yet to say how the coming crop will be affected.

OPIUM.—Dull of sale at unchanged prices as follows:—Good to fine soft shipping, 11*s*. to 11*s*. 9*d*. per lb.; good to fine *Smyrna* kinds, 9*s*. 3*d*. to 9*s*. 9*d*. per lb.; second *Druggists'* kinds, 8*s*. 6*d*. to 9*s*. per lb.; *Persian* opium, 10*s*. to 12*s*. per lb. Our *Smyrna* correspondent writes, under date of March 11, that the total sales for the week ending on that day amount to 57 packages. Holders are rather anxious to sell, and to accept low prices because of the very favourable reports which are constantly coming in from the growing districts. It is said that the opium out-put in *Salonica* will be the largest ever known, and will reach 1,500 cases, as compared with 1,200 last year. It is now almost impossible that the growing plants should suffer any damage from frost, and opium growers in *Asia Minor* are constantly telling their consignees in *Smyrna* to sell at any price they can get until the new opium comes in. Our *Constantinople* correspondent writes on March 9:—"Our sales this week sum up to 19 cases *Druggists'*, at 8*s*. 4*d*. to 8*s*. 2*d*. f.o.b., and 14 cases *Tokats*, at 9*s*. 4*d*. to 9*s*. 7*d*. f.o.b., the latter taken by speculators. Besides this, a firm here has bought from a *Constantinople* dealer 20 cases in *Smyrna*, at 8*s*. 4*d*. to 8*s*. 2*d*. The crop reports are most favourable, and holders in consequence show more inclination to sell part of their stocks. The stock in *Constantinople* is under 400 cases, and in *Smyrna* about 1,200 cases. This latter, however, includes 400 to 500 cases belonging to the speculator. This lot, we have reason to believe, will shortly be shipped, thus leaving only about 800 cases in that town.

ORANGE PEEL.—Remains very cheap. One case fine bright *Maltese* cut sold at 9*d*. per lb. Several other lots were bought in.

ORRIS.—At auction to-day 24 packages *Florentine* root were bought in at from 70s. to 80s. per cwt. For fair pale root a bid of 65s. per cwt. was rejected.

OTTO OF ROSE.—Reports from Kezanlik (Bulgaria), dated February 25 (March 9), state that the weather has been very mild for two months past, and that the roses commenced to sprout in the last week of February. At the end of the month the weather unfortunately turned very cold, and it is feared that the bushes, especially the young ones, have been damaged in consequence. There is now no longer any stock of old oil in Kezanlik.

QUASSIA.—Quiet at 5*l.* for logs, and 11*l.* per ton for good chips. At auction 60 bags fair chips sold cheaply at 7*l.* per ton.

QUICKSILVER.—Unchanged, 6*l.* 10*s.* per bottle from the importers and 1*s.* less from second-hand holders.

QUININE.—Very quiet, but rather firmly held; 11*l.* 6*d.* to 1*s.* per oz. is the second-hand quotation for German bulk, but we have not heard of any business this week.

RHUBARB.—Very dull of sale at a decline of 1*d.* to 2*d.* per lb. Holders brought forward 186 cases, but sold only 34 with some difficulty at the following prices:—*Shensi*, flat medium to bold, three-fourths pinky fracture, 1*s.* 10*d.*; medium to bold fine coat, pinky fracture, 2*s.* 4*d.*; round medium to bold good coat, seven-eighths pinky, 2*s.* 2*d.* to 2*s.* 3*d.*; medium ditto, pale coat, 1*s.* 9*d.*; small to medium, pinky fracture round, from 1*s.* 5*d.* to 1*s.* 9*d.*; flat small to medium fair coat, good fracture, 1*s.* 8*d.* to 1*s.* 9*d.*; small flat loose, bricky fracture, 1*s.* 1*d.*; round dull coat, three-fourths grey fracture, 11*l.* 6*d.*; fair pickings, 10*l.* 6*d.*; medium to bold spongy and wormy, 8*l.* 6*d.* per lb.

SACCHARIN.—The sweetening-power which "pure saccharin" is claimed to possess in comparison with sugar is as 280 : 1, not, as mentioned in our editorial article of last week, as 498 : 1. The following are the present quotations:—Refined (1 : 498), in lots of 1 lb., 63*s.*; 3 lbs., 62*s.*; 5 lbs., 61*s.*; 14 lbs., 60*s.*; 28 lbs., 59*s.* 6*d.*; and 56 lbs., 59*s.* per lb. Pure (1 : 280), in lots of 1 lb., 42*s.*; 5 lbs., 41*s.*; 11 lbs., 40*s.*; 22 lbs., 38*s.*; 56 lbs., 37*s.*; and 112 lbs., 36*s.* per lb.

SANTONIN.—Five shillings and sixpence per lb.

SARSAPARILLA.—In good demand: 17 bales *Jamaican* sold at 1*s.* 4*d.* per lb. for sound and 1*s.* 3*d.* per lb. for damaged, which shows an advance of about a penny. Forty-five serons *Honduras* were bought in at 1*s.* 2*l.* 6*d.* to 1*s.* 4*d.* per lb. *Lima* root rather easier, 10 bales chumpy damaged sold at 8*d.* to 8*l.* 6*d.* Of 3 packages ordinary *native Jamaica* 1 sold, damaged at 9*d.* per lb.

SCAMMONY ROOT.—Rather dearer and in small supply; 35*s.* per cwt. is now the general quotation; best quality of *Scammony* resin is also wanting, but the lower grades are almost unsaleable. The prices range from 20*s.* to 21*s.* per lb. for best, and from 18*s.* to 16*s.* for ordinary.

SENNA.—*Tinnevelly* senna has been in good demand privately, but at to-day's auctions only common qualities were offered. Of 300 packages 171 sold at unchanged rates 2*d.* to 2*l.* 6*d.* for small to medium greenish; 1*l.* 6*d.* to 1*d.* for small yellow mixed and specky; *l.* 6*d.* to *l.* 6*d.* for very common quality. Of senna pods a parcel was bought in at 7*d.* per lb.

SHELLAC.—At auction 581 cases were offered, of which 190 sold, mostly without reserve, at a decline of 1*s.* to 2*s.* on *Second orange*, and 3*s.* to 4*s.* on *Button* shellac. The following prices were paid: Good, second, orange, ordinary, blocky to fair, bright 95*s.* to 105*s.*; fine pale, 114*s.*; *Garnet*, unmarked, ordinary, blocky, 95*s.* to 96*s.* resinous third button, 91*s.* to 103*s.* *Seconds*, 107*s.* to 108*s.*; *TN orange lac* on the spot is worth 106*s.* to 107*s.*; *AC Garnet*, 103*s.* per cwt.

SNAKE-ROOT is reported again much dearer from America, and holders to-day require 2*s.* 4*d.* per lb. At that figure 4 bales were bought in. It is said that the root cannot be laid down at present at less than 1*s.* 9*d.* per lb.

SOY.—Neglected; fair *Chinese* at 10*d.* per gallon. At auction to-day 10 casks were bought in at 1*s.*

SQUILL.—Quiet at 3*l.* 6*d.* for fair palish.

STROPHANTHUS.—A small packet of fine *Kombé* seed in pod sold to-day at 4*s.* for the whole parcel. Twelve bags (about

600 lbs.) were bought in at 3*s.* 9*d.* per lb. for fair greenish, and 3*s.* 3*d.* per lb. for brownish. Another lot of 5 packages was bought in at 4*s.* 2*d.* per lb.

TEA.—The market is quiet, though there is a fair amount of desultory buying going on in the country. Both Assams and Ceylons are irregular in auction, and there are really cheap teas knocked down here and there in sale. These sell readily enough in the country, so that dealers who have not got too much stock and buy carefully are doing fair trade. Indian sales are light and contain a considerable proportion of autumnal tea, so that the amount of really useful Assam is not large. The terminal market is weak and shows an inclination downwards, though there is no actual drop for spot transactions. On Tuesday, fair leaf Pekoe Souchong was *l.* 6*d.* cheaper, and plenty of useful tea sold at 6*l.* 6*d.* Broken Pekoes from 9*d.* to 1*s.* were very cheap, and were in some cases *l.* 6*d.* to *l.* 6*d.* lower. The most striking value in Congou is to be found just now in new makes. There are a good many really good fourth-crop teas on the market which sell from 5*l.* 6*d.* to 9*d.*, and are worth attention. They are better leaf this year than usual. Some of them give an excellent liquor, and will be wanted in a month or two at more money.

TONCA BEANS.—Dull of sale. One case black, partly foxy *Pará* beans sold to-day, at 1*s.* 4*d.* per lb.

TURMERIC.—Much lower; at public sale about 500 bags *Bengal* were offered, of which 80 sold at from 8*s.* 6*d.* and 9*s.* per cwt.; of *Madras* turmeric, 662 bags were offered, of which 130 sold at from 9*s.* 3*d.* to 11*s.* for fair bold to fine, bright, yellow, finger, and at 7*s.* 6*d.* per cwt. for bulbs.

VANILLA in small supply and rather easier. At auction only a few lots were sold: small cottony chocolate, 3 to 5*l.* 6*d.* inches, 14*s.* to 17*s.* per lb.; ordinary dry brownish, 3*l.* 2*d.* to 5 inches, 14*s.* per lb.

WAX (BEES).—*East Indian* wax is in large supply, but no sales were made to-day. *Jamaican* wax is about 7*s.* 6*d.* per cwt. lower; from 8*l.* to 8*l.* 10*s.* per cwt. was accepted to-day. *Australian* wax is also lower, with sales at from 7*l.* 7*s.* 6*d.* to 7*l.* 12*s.* 6*d.* per cwt. *Madagascar* wax sold at 7*l.* 5*s.* for fair quality.

WAX (CARNAUBA).—In London there is no stock at all; in Liverpool the demand continues brisk, with sales of fair to fine, pale, yellow at 107*s.* to 118*s.* per cwt.

WAX (JAPAN).—Sales of fair squares have been made privately this week at 25*s.* per cwt., and at auction the same price was obtained for 28 cases. This shows a reduction in price of about 2*s.* per cwt. It is said that the quotation for shipment to-day is 25*s.* 6*d.* per cwt., c.i.f. terms.

BENZOL.—Commercial 90-per-cent. benzol contains about 70 per cent., and "50-per-cent. benzol" about 46 per cent. of pure benzene. The terms refer to the proportion of the mixture which passes over below 100° C., when the commercial product is distilled.—*Perkin and Kipping*.

THE secretary of Yanatas (Limited) is a smart man, if we may judge from the way he writes to us. "Some little time since," he says, "I saw in a paper, probably your own, that the Duchess of Beaufort had not for years crossed to her place in Ireland, because she was so bad a sailor, but that the illness of her daughter, the Marchioness of Waterford, had compelled her to recently." Well, the Duchess can cross the Irish Channel now without discomfort, for she takes Yanatas, which is a sea-sickness remedy.

PHARMACY CYCLING CLUB.—At a meeting of chemists and assistants, held on March 19, at 55 Northumberland Street, Newcastle-on-Tyne, Mr. T. Maltby Clague in the chair, it was decided to form a club to be called "The Newcastle-on-Tyne Pharmacy Cycling Club." The following office-bearers for the current year were elected:—President, John Bolam, Esq.; Captain, Mr. John Shaw; Vice-captain, Mr. James Davidson; Secretary and Treasurer, Mr. A. Russell Bennet; Auditor, Mr. George F. Merson, Committee, Messrs. Forbes, Maxwell, McClumpha, Sharp, and Wilson. Over a score of members were enrolled.



Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications with, if desired, a distinctive nom-de-plume.

Mr. Ledger on his South American Travels.

SIR,—Noticing in your issue of December 15, 1894, page 841, an article entitled "The Flowers of an Inga," a paper read by Mr. R. G. Guyer at the London Chemists' Assistants' Association, I am induced to tell you what I know about the said flowers. Until 1883 I was a resident of South America for forty-seven years, and during that time I had in my employ for thirty-two years a Bolivian Indian, named Manuel Yncrú Mamani, whose duty it was to examine and pack the large quantities of cinchona-bark (cascarilla) and Alpaca-wool I used to purchase up to 1852. He also, with two of his sons, accompanied me the six years I was occupied in getting the flock of Alpacas I conducted through Bolivia and Argentine Provinces of Salta and Rioja into Chile for shipment from Caldera to Australia, 1858. During our travels, and round our camp-fires of an evening, he used to dilate on the wonderful qualities of the coca-leaves of his native country. He assured us that the "flowers" placed in each "sesto of coca" (20 sextos forming the "tambor") was with the object of preserving the leaves fresh and green. Without the "inga-flowers" the leaves would very soon become dry and yellow. Among all the Indians of Peru, Bolivia, and Northern Argentine Provinces of Jujuy and Salta the coca-leaves are held in superstitious veneration. I could recount a great number of stories told at different times during my numerous journeys through the interior of those interesting countries. Manuel always accompanied me on foot. I could not get him to ride, and some days I have ridden 70 miles with him close by. From 1860 to 1865 he was employed by me in getting the now famous "*Ledgeriana cinchona-seed*" that has turned out so valuable to the Java plantations.

Hoping you may find the foregoing interesting,

Remain yours respectfully,

Kenmore, Goulburne, N.S.W.,

C. LEDGER.

February 9.

P.S.—I was well known to the late John Eliot Howard, Esq., as you can see by reference to his work "Quinology of the East Indian Plantations." Mr. Clements Markham also mentions my name in his works.

Dry Diphtheria Serum.

SIR,—Referring to the note under the above heading in your last number, it may interest your readers to know that it is now months since Dr. Ruffer, of the British Institute of Preventive Medicine, successfully dried diphtheria antitoxin *in vacuo* as a small laboratory experiment. We have similarly dried larger quantities for him.

As is known to many, Dr. Klein has been carrying out highly successful researches of a purely scientific character on diphtheria antitoxin, and we have also for him dried *in vacuo* several batches of serum. The results at which these gentlemen arrive will no doubt ere long be made known to the profession.

The tetanus antitoxin of Professor Tizzoni, which has been passing through our hands since its introduction about a year ago, has always been sent out in the form of dry scales.

The advantages of such a form are obviously very great, if, as now seems almost certain, it can be attained without appreciable loss of activity.

Yours very truly,

ALLEN & HANBURYS (LIMITED).

Frederick J. Hanbury, director.

37 Lombard Street, E.C., March 18.

Major Examinations.

SIR,—I see my suggestion, "That the subjects for the Major examination might be taken one or more at a time at the discretion of the candidate," has been favourably received, and hopes expressed that it may be brought before the Council for their consideration, I would endeavour to do this if all who are interested would signify their assent and willingness to co-operate by sending me their full names and addresses to be copied upon sheets. Obviously it would be impracticable to obtain the autograph signatures on the sheets to be presented to the Council. Any suggestion or reason that would carry weight with them in favour of their granting the concession would be welcome.

I remain, Sir, yours faithfully,

S. C. FREDERICK MICHEL.

The Pharmacy, St. Anstell, March 20.

Which is the Strongest Ginger?

SIR,—How do the different varieties of ginger compare as regards strength? In your issue of January 12 a public analyst is reported as saying that African ginger "was the lowest in regard to pungent and aromatic qualities." Stillé and Maisch, on the contrary, in the "National Dispensatory," state that "Jamaica ginger yields the smallest, and African ginger the largest, amount of volatile oil, resins, and gingerol."

The "National Dispensatory" is usually accurate and reliable, perhaps more so than even a public analyst; but if it is so in this case it is surely a serious matter that one of these gentlemen, who so gallantly protect the vendors of pure drugs, should pick out the strongest quality as a standard and gently plume himself on his generosity in choosing the weakest and lowest standard!

Perhaps you, sir, could give a little light on the subject for the benefit of public analysts and the trade generally. Of course, Jamaica ginger is the proper kind for chemists to keep, for, whether stronger or weaker, it is a finer quality.

Yours truly,

Tripoli, Barbary, February 26.

H. G. HARDING.

[Mr. F. M. Siggins reports in the *American Journal of Pharmacy*, 1888 volume:—Examinations of gingers: African yielded 6·17 and 7 per cent. of resin, East Indian 6·57 and 6·65 per cent., bleached Jamaica 4·5, and unbleached 5 per cent. We think these figures are too high; but there is no question (so far as the literature on the subject teaches) that Jamaica ginger is poorer in resin than the African and Indian varieties, and the bleached rhizome is much inferior in volatile oil. The statement referred to is by Mr. E. W. T. Jones, F.I.C., of Wolverhampton, and requires correction.—ED. C. & D.]

The Metric System.

SIR,—May we point out that the British War Office has been in the habit for some considerable time of printing on the "tender forms," which those who seek to obtain its contracts must fill in, a statement to the effect that fractions of a penny must be calculated in decimals? Truly, we are a most logical nation! Yours faithfully,

Stratford, E., March 14.

THOMAS TYRER & CO.

Chemists on Anti-Cutting.

We have received several letters on the subject of anti-cutting arrangements, but they are mostly merely anonymous expressions of opinion.

Mr. W. Rees, of Brynamman, complains that a local grocer sent to Messrs. Allen & Hanburys for some of their food, and obtained it at wholesale price, though it was for use in his own family and not for sale.

Mr. J. Macdonald Frew, of Dingwall, fully endorses Messrs. Maw's comments on the A. & H. agreement, which simply provides that "the poor retail chemist may get 1d. instead of $\frac{1}{2}d.$ profit." He considers that neither Messrs. Allen & Hanburys nor anyone else have the right to dictate to a purchaser what he may sell their preparations at.

Phos (263/61) thinks the difficulty which has brought about the "unreasonable and ruinous competition" is "the practice

of allowing an extra discount to large buyers." So far as he knows, "the house of Pears is the only one which deals equitably and honourably by the trade, giving every one alike the same terms."

A *Country Chemist* (4/49) thinks "Messrs. Maw, Son & Thompson in declining to sign the A & H. agreement seem to forget that most chemists would naturally prefer to deal with a firm which is willing to take a little extra trouble to prevent the excessive cutting so much in vogue."

The P.O. and Early Closing.

SIR,—With regard to the Shops (Early Closing) Bill, has any provision been made by which those who have a Post-office attached to their business may close their business early? I remember the case of a chemist in such a position who agreed with the rest of his brethren to close early once a week. He left no one in the shop except the Post-office clerk, and had a sheet hung across so as to hide from view all but the stamp-counter. As soon as the Post-office authorities heard of it they put a stop to it, telling him that his shop must not even bear the semblance of being closed. I think such cases ought to be considered in every Bill dealing with the early closing of shops.

R. U. B. (11/42.)

Frozen Hunyadi Janos.

SIR,—I am sure everyone will be interested in the photographs sent by Mr. Williamson reproduced in your paper. May I say I saw exactly the same thing a few years ago? Calling on a chemist in South-west Lancashire on a foggy winter's evening, the shop being in comparative darkness, I asked if the gas-metre was frozen as well as the water-pipes. He replied, "No." Whereupon I called his attention to his window, in which there were three or four bottles frozen in the same way, looking like candles stuck in bottles, the corks being on the top.

Yours,
WM. STOKOE.

Stratford, March 18.

LEGAL QUERIES.

Immediate information on pharmaco-legal matters is available in "Pharmacy and Poison Laws of the United Kingdom," Alpe's "Handy-book of Medicine-stamp Duty," and THE CHEMISTS' AND DRUGGISTS' DIARY.

260/64. John has recently bought a chemist's business, and among other effects in the purchase were some aerated-water bottles and cases, with a particular maker's name and address stamped thereon. He sent these back to the maker, requesting that he should remit the amount which had been paid for them by his predecessor. The maker replies that he is willing to credit them against waters to be supplied in the future, but will not remit the cash, and adds that "John" has no claim whatever on him. Has "John" not a right to demand the same amount for them as his predecessor had paid for them? [Our correspondent does not tell us what the terms of the contract were under which his predecessor became possessed of the bottles and cases. Even if it were agreed that the value of the empties should be remitted on return in cash or waters to our correspondent's predecessor, it does not at all follow that our correspondent, as successor in the business, has a right to demand that their value should be remitted to him. Such a right might be given by an elaborately-worded transfer of the business, but it is not at all likely that "John" would have foreseen the necessity for such a transfer, nor cared to pay a person competent to prepare it if he had. "John" is practically in the same position as a marine-store dealer buying up a manufacturer's cases amongst other rubbish. Would our correspondent contend that such a purchaser could force the empties upon the manufacturer and obtain full prices? It is a very common practice among mineral-water manufacturers to contract that they will only exchange empties for waters, to provide for the occasion when their customer or his successor wishes to return all empties at full value and bestow his favours elsewhere. Our correspondent had better accept the manufacturer's offer of the waters.]

10/3. *Apricot*.—Your specialities being pure drugs are not liable to stamp-duty; but you should send samples, with labels and a statement as to their composition, to the Secretary of the Board of Inland Revenue.

12/8. *Cepia*.—If you can prove that the custom of the trade is a month's notice you will earn the gratitude of every employer and assistant. You ask us if you can enforce your claim for a month's notice, that not having been mentioned in the agreement, and payments being made weekly? We do not think so.

13/1. *B.*.—Any one or more persons, *bona fide* engaged in wholesale business, and not at all in "retailing," may call themselves wholesale manufacturing-druggists.

MISCELLANEOUS INQUIRIES.

Back numbers containing formulæ, educational or other specific information can be obtained from the Publisher.

N.B.—We destroy anonymous letters. We do not answer queries of the kind here dealt with by post. We ask that separate queries shall be written on separate sheets of paper.

5/55. *J. H. W.*.—Modelling-wax.—See 1894 DIARY, page 371.

6/55. *Gun*.—Gun-barrels are Blackened by coating the finely-polished barrel with a thin layer of olive oil, and dusting with hard-wood ash. Next it is heated over a glowing fire until black, allowed to cool, then washed with water acidulated with hydrochloric acid, dried, and polished with oil.

6/57. *H. & S.*.—Composition Powder.—See *C. & D.*, November 26, 1892, page 788.

6/29. *Pectoral*.—We have not examined the Cough-syrup which you speak of. Please select a formula to suit your purpose from those given on page 45, January 12.

2/6. *Anchovies*.—Essence of Anchovies.—See *C. & D.*, September 10, 1892, page 395.

1/16. *Stone Beer*.—Ginger-beer.—See *C. & D.*, January 26, page 111.

263/65. *W. V. de W.*.—Liquid for Fumigating Green-houses.—See *C. & D.*, November 17, 1894, page 724. Your liquid closely resembles this.

1/37. *Pugna Vitæ*.—The best way to get a situation is to advertise for it; but we do not think that service with a medical man as dispenser is the shortest way to get into the medical profession.

1/6. *Heading*.—A liquid extract of quillaia is employed for Beverage-heading. You may use quillaia in the proportion of 10 oz. to 20 oz. of a menstruum consisting of water 3 parts and rectified spirit 1 part. Soap-nuts are also used.

1/69. *Essex*.—Any pharmaceutical apparatus maker will supply you with lozenge-cutters. See DIARY, page 145, and write to the firms.

257/67. *C. P. T.*.—Brann's "Vinegar, Cider, and Fruit Wines" (Sampson Low, 25s.) is a book which will suit.

263/44. *Belladonna*.—It is the first time we have heard it said that alcoholic extract of belladonna is exclusively used to make Suppos. Belladonna gr. j. Custom sanctions only the green extract. Please refer your wholesale house to Squire's "Companion." Martindale's "Extra Pharmacopœia" gives the extract of the root, because "it is almost impossible to get sufficient of the green to combine with the basis to be of service." This does not accord with our experience. For years we made the following suppositories in six-dozen quantities:—

| | | | | | |
|----------------|----|----|----|----|---------------------------------|
| Ext. hyoscy. | .. | .. | .. | .. | gr. v. |
| Ext. belladou. | .. | .. | .. | .. | gr. j. |
| Ol. theobrom. | .. | .. | .. | .. | q.s. ut fiat. suppos
gr. xv. |

There is no trouble once the initial difficulty is mastered. We used a quinine-bottle in the way recently described by Mr. Wyatt.

1/45. *L. S. L.*—The formula for *Liq. Tolutanus* in the DIARY, 1894, is as supplied to us by a correspondent. It may be made with $1\frac{1}{4}$ oz. of balsam, but in that case it becomes a 1-to-3 preparation. The kaolin should be mixed with the water.

257/90. *Inquirer* (Southsea).—*Acetanilide*.—See DIARY, page 408, and Watts's "Dictionary."

INFORMATION SUPPLIED.

For this section we are always glad to receive from subscribers brief notes on practical subjects, recipes which have been found good in practice or which have required modification, and hints or fresh ideas on any pharmaceutical or trade matter.

For Erysipelas:—

| | | | | | |
|-----------------------|----|----|----|----|----------|
| Liq. ferri perch. ft. | .. | .. | .. | .. | gtt. xl. |
| Pot. chlor. | .. | .. | .. | .. | 9ij. |
| Glycerini | .. | .. | .. | .. | 3j. |
| Inf. quassiae ad. | .. | .. | .. | .. | 3vij. |

M.

Sig. : 3j. every four hours.

PICRATE. (6/1.)

For Colds—Influenza (excellent):—

| | | | | | |
|---------------------------|----|----|----|----|--------|
| Tinct. verat. virid. H.P. | .. | .. | .. | .. | mlvij. |
| " cinnam. co. ad. | .. | .. | .. | .. | 5j. |

M.

Sig. : 5j. in half a wineglassful of water nocte h.s.

PICRATE. (6/1.)

Gout and Rheumatic Mixture:—

| | | | | | |
|-------------------|----|----|----|----|-------|
| Lith. beuz. | .. | .. | .. | .. | 9iv. |
| Pot. iod. | .. | .. | .. | .. | 3ss. |
| Tinct. serpete... | .. | .. | .. | .. | 5ij. |
| Vin. colch. | .. | .. | .. | .. | 3j. |
| Ext. manacaæ liq. | .. | .. | .. | .. | 3iss. |
| Aq. chlorof. ad. | .. | .. | .. | .. | 3vij. |

M.

3j. bis die.

PICRATE. (6/1.)

Tic-pills:—

| | | | | | |
|------------------|----|----|----|----|-------------------|
| Quiniae sulph... | .. | .. | .. | .. | gr. j. |
| Ext. aloes aq. | .. | .. | .. | .. | gr. ss. |
| Ferr. sulph. ex. | .. | .. | .. | .. | gr. iss. |
| Ext. bellad. | .. | .. | .. | .. | gr. $\frac{1}{2}$ |
| " gentian. | .. | .. | .. | .. | gr. iss. |
| Prlv. capsici | .. | .. | .. | .. | gr. j. |
| " camph. | .. | .. | .. | .. | gr. j. |

M. Ft. pil. ij.

PICRATE. (6/1.)

Pills for Spermatorrhœa:—

| | | | | | |
|------------------|----|----|----|----|---------------------|
| Zinci valer. | .. | .. | .. | .. | gr. iij. |
| Ext. bellad. | .. | .. | .. | .. | gr. $\frac{1}{2}$ |
| Quiniae sulph... | .. | .. | .. | .. | gr. j. |
| Conf. rose | .. | .. | .. | .. | q.s. ut ft. pil. j. |

Mitte xxiv.

Sig. : j. t.d.s.

PICRATE. (6/1.)

Distemper-pills for Dogs:—

| | | | | | | |
|---------------|----|----|----|----|----|-------------------|
| Quin. sulph. | .. | .. | .. | .. | .. | gr. j. |
| Pulv. ipecac. | .. | .. | .. | .. | .. | gr. $\frac{1}{2}$ |
| Ext. gentian. | .. | .. | .. | .. | .. | q.s. ut ft. pil. |

Sig. : j. bis die n. mque.

PICRATE. (6/1.)

For Piles:—

| | | | | | | |
|--------------|----|----|----|----|----|--------------------|
| Conf. senu. | .. | .. | .. | .. | .. | 3j. |
| Sulphur. | .. | .. | .. | .. | .. | 3ss. |
| Forri carb. | .. | .. | .. | .. | .. | 3ij. |
| Pot. bitart. | .. | .. | .. | .. | .. | 5ij. |
| Syr. zingib. | .. | .. | .. | .. | .. | q.s. ut ft. oleat. |

PICRATE. (6/1.)

Invisible Writing on Glass.—Glass written upon with French chalk shows the design only when breathed upon. The glass is written on with a French-chalk pencil, cleaned with a handkerchief.

W. V. WESTLAKE, Melksham.

[7/52 (M. P. S.) and 8/35 (A. P. S.) also send similar replies.]

INFORMATION WANTED.

The Editor invites, on behalf of inquiring subscribers, postcard replies to the following:—

257/19. *Broad* is frequently called upon to disinfect apartments, carriages, &c., and wants to know what to charge. Has anyone experience in the matter?

11/42. *R. W. R.* wants someone who passes the Major examination in April to send us an account of the practical work and such questions as may be put to candidates orally.

257/65. Carbolic-spray producer like a retort with two projecting side-jets and small fan wheel fixed upon the upper surface: where obtainable?

9/6. Tipper's Mystery, a powder given to horses: where obtainable?

6/46. Beane's [?] electric box for producing ozone: who makes?

Next Week.

Monday, March 25.

Society of Arts, John Street, Adelphi, W.C. At 8 P.M. *Cantor Lectures*. "Commercial Fibres," by Dr. D. Morris.

Tuesday, March 26.

Royal Institution of Great Britain. At 3 P.M. Professor C. Stewart on "The Internal Framework of Plants and Animals."

Wednesday, March 27.

Chemical Society, Burlington House. Anniversary meeting, 3 P.M. Anniversary dinner, Hôtel Métropole, 7 P.M.

Society of Arts, John Street, Adelphi, W.C. At 8 P.M. "Modern Photogravure Methods," by Mr. Horace Wilmer.

Thursday, March 28.

Chemists' Assistants' Association, 103 Great Russell Street, W.C. At 8.30 P.M. Short papers by members.

Friday, March 29.

Edinburgh Chemists', Assistants', and Apprentices' Association. At 9.15 P.M. "Emp. Belladonna," by Mr. Peter Boa, and "Suggested B.P. Emulsions," by Mr. Claude F. Henry.

Royal Institution of Great Britain. At 9 P.M. Professor H. E. Armstrong on "The Structure of the Sugars and their Artificial Production."

Blondeau New Choice Toilet Soaps.



EXQUISITELY PERFUMED WITH
THE CHOICEST SCENTS.

Made from Vinolia Soap Basis.

Supplied in beautiful artistic boxes,
each containing 3 tablets.



| | Retail Price
per Box | Trade Price
per dozen
Boxes | | Retail Price
per Box | Trade Price
per dozen
Boxes |
|----------------------|-------------------------|-----------------------------------|--------------------------|-------------------------|-----------------------------------|
| Blondeau's Baby Soap | 1/6 | 12/- | Blondeau's Maréchal Niel | | |
| „ Cucumber and | | | Soap | 2/- | 16/- |
| Glycerine Soap | 1/6 | 12/- | „ Oriental Soap | 2/- | 16/- |
| „ Cold Cream Soap | 2/- | 16/- | „ Lettuce Soap | 2/- | 16/- |
| „ Lys de France | | | „ Heliotrope Soap | 2/- | 16/- |
| Soap | 2/- | 16/- | „ White Rose and | | |
| „ Jequilla Soap | 2/- | 16/- | Cucumber Soap | 2/6 | 20/- |
| „ Marequil Soap | 2/- | 16/- | „ Violet Soap | 3/- | 24/- |
| „ Musk Lavender | | | „ Opoponax Soap | 3/- | 24/- |
| Soap | 2/- | 16/- | | | |

Blondeau

Vinolia

Perfumes.

DELICATE.

CONCENTRATED.

PURE.

AS GOOD AS CAN POSSIBLY BE MADE.

1/3, 1/9, 3/, 5/, & 9/. In 23 kinds. 1/3, 1/9, 3/, 5/, & 9/.



Vinolia Bouquet
Jequilla
Marequil
Losaria
White Heliotrope
White Rose
Opoponax
Stephanotis

Millefleur
Ylang-Ylang
Frangipanni
Maréchal Niel
Wood Violet
Ess. Bouquet
Jockey Club

Musk
Ambergris
Amaryllis
White Lilac
Musk Rose
New Mown Hay
Jasmin
Honeysuckle

TRADE PRICE Per dozen bottles, 10/-, 14/-, 24/-, 340/-, 72/-

All the above prices are subject to usual discounts.

***** FOR SPECIAL OFFER SEE LAST WEEK'S ISSUE. *****

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BICARBONATE OF SODA,

REFINED AND RECRYSTALLIZED.

PURE AND CHEAP.

ANALYSIS.

| | | | | | | | |
|------------------------|-----|---|---|---|---|---|-------|
| Bicarbonate of Soda | --- | — | — | — | — | — | 97·20 |
| Mono Carbonate of Soda | — | — | — | — | — | — | 1·90 |
| Sulphate of Soda | — | — | — | — | — | — | trace |
| Chloride of Sodium | — | — | — | — | — | — | ·035 |
| Moisture | — | — | — | — | — | — | ·82 |
| Insoluble | — | — | — | — | — | — | nil |

PURE ALKALI,

GUARANTEED 58 DEGREES.

EQUAL TO 98 PER CENT. OF CARBONATE OF SODA.

Most economical form of Soda for the use of Printers, Bleachers, Dyers; Glass, Paper, and Soap Makers.

CONCENTRATED CRYSTAL SODA

(Sesqui-Carbonate).

By far the Purest and Cheapest form of Washing Soda.

Only 1 lb. of Concentrated Crystal Soda required to do the work of 2 lbs. of Washing Soda.

SODA CRYSTALS

OF THE FINEST QUALITY.

Also BLEACHING POWDER.

BRUNNER, MOND & CO., LIM.

Manufacturers of Soda by the Ammonia Process,

NORTHWICH, CHESHIRE.

Branch House: HOPKIN & WILLIAMS, 16 CROSS ST., HATTON GARDEN, LONDON, E.C.



Established
1798



Howards & Sons

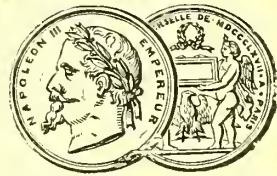
QUININE, CINCHONA ALKALOIDS,

Acetates of Soda & Potash.
Acids, pure.
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Satisfactory results are recorded from its employment as an anti-febrile in phthisis and other pulmonary affections, in ileotyphus, &c. (Herzog, von Mering, Hertel, Jacobi, Cohnheim), as an anti-rheumatic, especially in acute forms (Hertel, Cohnheim), and as an anti-neuralgia (Herzog, Aronson, Cohnheim), as a specific in malarial fever (V. Dall'Olio, Albertoni, Prati, Novi, Venturini, Cucco, G. Colosanti, G. Geronzi).

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For Literature, vide "The Therapist," published by Aug. Siegle, 30 Lime Street, E.C.

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| Hydriodate of Morphine | 3 | 0 |
| Iodoform | 3 | 0 |
| Iridine | 2 | 6 |
| Jalapire | 2 | 6 |
| Juglandine | 2 | 6 |
| Kousseine | 2 | 6 |
| Leptandrine | 2 | 6 |
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| Nitrate of Pilocarpine | 4 | 0 |
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| Piperine | 2 | 6 |
| Quassine | 2 | 6 |
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| Camphor Monobromide | 3 | 0 |
| Carbonate of Lithia | 2 | 6 |
| Croton Chloral | 3 | 0 |
| Diastase | 4 | 0 |
| Emetic | 2 | 6 |
| Ergotine | 3 | 0 |
| Hélinéine | 3 | 0 |
| Hypophosphite of Lime | 2 | 0 |
| Kermes Mineral | 2 | 0 |
| Lactate of Iron | 2 | 0 |
| Pepsine | 2 | 6 |
| Phosphate of Iron | 2 | 0 |
| Podophyllin | 2 | 6 |
| Protoiodide of Mercury | 2 | 6 |
| Salicylate of Quinine | 3 | 0 |
| " Soda | 2 | 0 |
| Santonine | 3 | 0 |
| Sub-Nitrate of Bismuth | 2 | 0 |
| Sulphate of Quinine.. | 3 | 0 |
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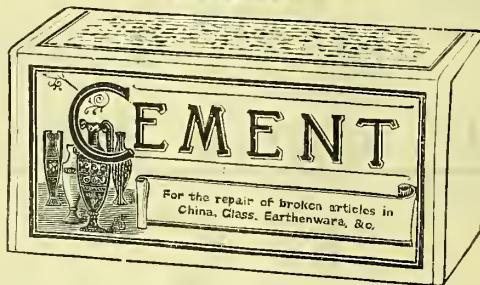
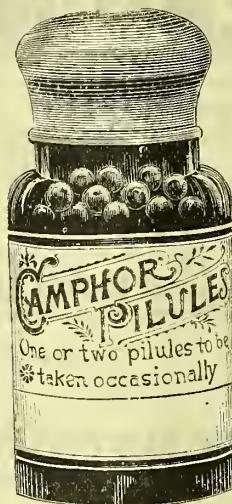
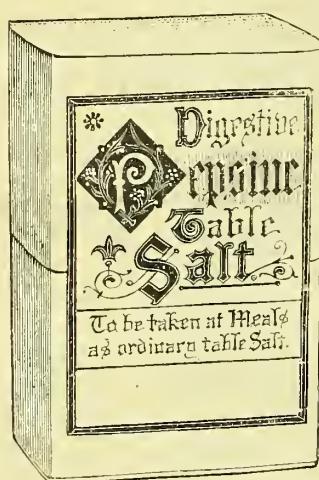
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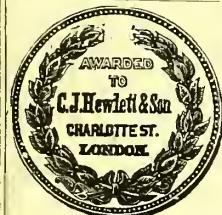
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It having been brought to our knowledge that certain Chemists in the United Kingdom are selling as Bromidia a substance not manufactured by Messrs. Battle & Co., We Hereby Give Notice that legal proceedings will be instituted to restrain any persons from selling under the title or name of Bromidia, or any name which will be liable to be mistaken for the same, any substance not of the manufacture of Messrs. Battle & Co. We are the Sole Wholesale English Agents for this preparation.

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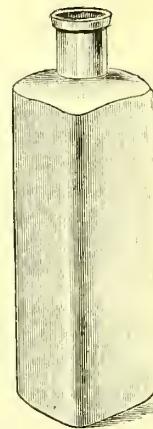
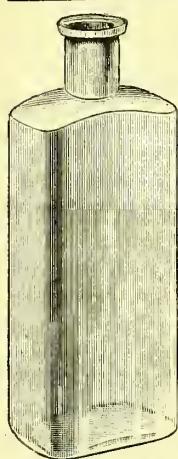
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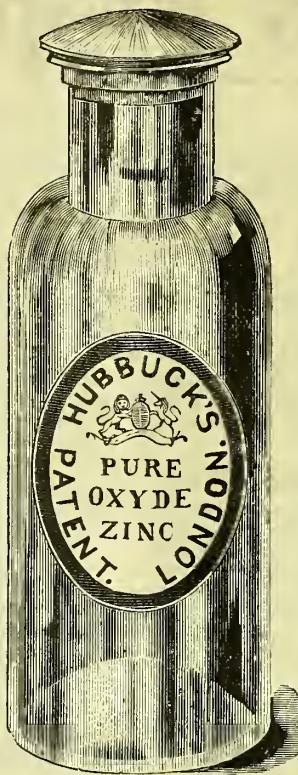
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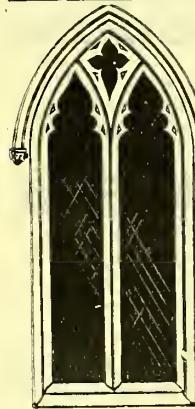
It is a pleasant and reliable Antipyretic, with the additional advantage of a pronounced soothing hypnotic effect occurring simultaneously with the Antipyresis. It agrees well with patients. It has given excellent results, even with little children. It has been found to be very free from injurious or disagreeable after-effects.

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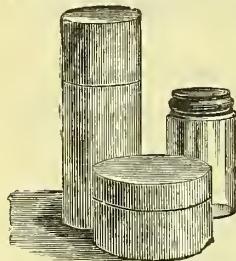
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| Dates | 15/- | 2/9.. Pills | 24/- | 1/12 Papier Fayard | ..69 | 4/- Racahout des Arabes | 31/- |
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| | | Syrup | 23/- | 1/9.. " de Berthé | 15/6 | 1/6.. Vallet's Pills | 14/3 |
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FIRST to introduce a bitterless and miscible Fluid Extract (formula 1887). And

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Is there a change in them?

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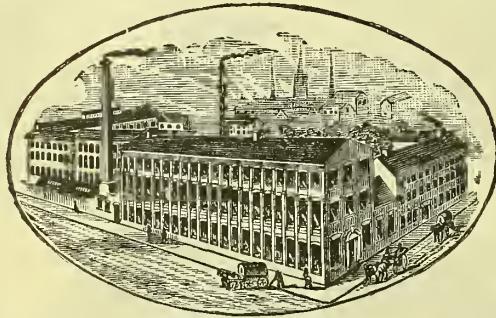
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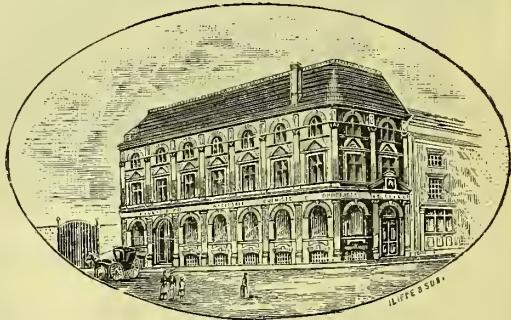
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Dr. Lennox Browne wrote of it: "Very ingenious, and a great desideratum for poor patients."

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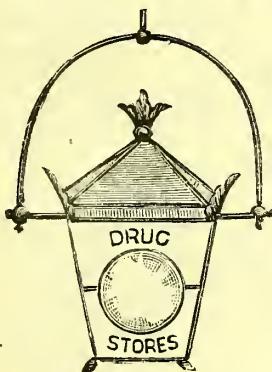
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| CAMPHOR SALT , ROUNDS, dark actinic green, wide mouth. | 1 | 1½ | 2 oz. | | | | | | | | | | | | | | |
| Ground-glass globe stoppers | 21/ | 23/6 | 27/ per gross. | | | | | | | | | | | | | | |
| CAMPHOR SALT , SQUARES, dark actinic green, wide mouth. | 1 | 1½ | 2 oz. | | | | | | | | | | | | | | |
| Ground-glass globe stoppers | 21/ | 23/6 | 27/ per gross. | | | | | | | | | | | | | | |
| CANNON ESSENCE BOTTLES , ROUND, extra heavy, for Perfumery, white flint glass. | | | | | | | | | | | | | | | | | |
| Plain | ½ oz. | 6 dr. | 1 | | | | | | | | | | | | | | |
| Fitted white metal sprinklers | 6/ | 7/ | 7/6 | | | | | | | | | | | | | | |
| Stoppered globe head stoppers | 13/ | 14/ | 15/6 | | | | | | | | | | | | | | |
| | 14/6 | 15/6 | 16/ | | | | | | | | | | | | | | |
| | | | 17/ | | | | | | | | | | | | | | |
| | | | 18/ | | | | | | | | | | | | | | |
| | | | 18/ | | | | | | | | | | | | | | |
| | | | 21/ | | | | | | | | | | | | | | |
| | | | 22/ | | | | | | | | | | | | | | |
| CANNON ESSENCE SQUARES , ORDINARY SERIES, white flint glass—Good bold attractive shape—(LUNDBORG'S SQUARES). | Size | ½ oz. | 6 dr. | | | | | | | | | | | | | | |
| Plain | 1 | 6/ | 7/ | | | | | | | | | | | | | | |
| Fitted white metal sprinklers | 1½ | 13/ | 14/ | | | | | | | | | | | | | | |
| Ground-glass stoppered | 2 | 14/6 | 15/6 | | | | | | | | | | | | | | |
| CANNON ESSENCE SQUARES , EXTRA TALL SERIES, white flint glass—VERY ATTRACTIVE BOTTLE—(TALL LUNDBORG'S SQUARES). | 2 | 3 | 4 | | | | | | | | | | | | | | |
| Plain | 6/ | 10/6 | 11/6 | | | | | | | | | | | | | | |
| Fitted white metal sprinklers | 18/ | 19/6 | 21/ | | | | | | | | | | | | | | |
| Ground-glass stoppered | 18/ | 21/ | 22/ | | | | | | | | | | | | | | |
| CASTOR OILS , long neck, ROUND— | Size | 1 | 1½ | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 20 & 22 oz. | | | | |
| Pale green or pale blue tint | 4/6 | 5/ | 5/6 | 6/ | 7/ | 7/6 | 8/ | 8/ | 10/6 | 11/6 | 12/6 | 14/6 | 16/ per gross. | | | | |
| Dark blue glass or actinic green | 5/ | 5/6 | 6/6 | 7/6 | 8/ | 9/ | 9/ | 9/ | 11/6 | 12/6 | 14/6 | 16/ | 18/ " | | | | |
| COUGH MIXTURE FLATS , panelled (essence of linseed bottles). | 1½ | 2 | 2½ | 3 | 4 | 5 | 6 | 8 oz. | | | | | | | | | |
| Pale blue tint | 5/6 | 6/ | 6/6 | 7/6 | 8/6 | 8/6 | 9/ | 9/6 | 10/6 | 11/6 | 12/6 | 14/6 | 16/ 11/ per gross. | | | | |
| This series stocked in pale blue glass only, but can be made to order in quantities of not less than 5 gross of a size in <i>white flint, amber, or dark blue glass</i> at prices as follows:— | 1½ | 2 | 2½ | 3 | 4 | 5 | 6 | 8 oz. | | | | | | | | | |
| | 6/ | 6/6 | 7/ | 8/6 | 9/6 | 10/6 | 11/ | 13/ per gross. | | | | | | | | | |
| DISPENSING BOTTLES , FLAT, plain, or graduated. | Size | 1 | 1½ | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 20 | 24 | 32 | 40 oz. | |
| Pale blue tint | 5/ | 5/6 | 5/6 | 6/6 | 6/6 | 8/ | 8/6 | 12/ | 13/ | 14/ | 18/ | 22/ | 27/ | 32/ | 38/ per gross. | | |
| White flint glass | 5/ | 5/6 | 6/6 | 7/ | 8/ | 9/ | 9/6 | 14/ | 15/ | 18/ | 22/ | 26/ | 32/ | 38/ | 44/ at same prices as white flint glass. | | |
| FEEDING BOTTLES—INTERNATIONAL | | | | | | | | | | | | | | | | | |
| The following are special lines at low prices for those of our customers who require VERY CHEAP feeding bottles. We do not supply these in | | | | | | | | | | | | | | | | | |
| ess than one gross lots. | | | | | | | | | | | | | | | | | |
| Each in Paper Bag. | | | | | | | | | | | | | | | | | |
| No. | | Per gross. | No. | | Per gross. | | | | | | | | | | | | |
| 33. Green bottle, box-topped cork, white rubbers | ... | 25/ | 37. Green bottle | | white rubbers | 29/ | | | | | | | | | | | |
| 34. White | " | 26/ | 38. White | | black | 31/ | | | | | | | | | | | |
| 35. Green | " | 27/6 | 39. Green | " | 32/ | | | | | | | | | | | | |
| 36. White | " | 29/ | 40. White | " | 34/6 | | | | | | | | | | | | |
| INTERNATIONAL SERIES IN FOLDING CARD BOXES. ATTRACTIVELY LABELLED. | | | | | | | | | | | | | | | | | |
| Screw glass stoppers, black seamless teats, and 7½-inch best quality black rubber tubes. | | | | | | | | | | | | | | | | | |
| No. 61. White glass bottle, white glazed earthenware unions | ... | ... | without brushes | 40/ | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| " 62. Green | " | 38/ | " | " | " | " | " | " | " | " | " | " | " | " | " | " | |
| " 63. White | " | 41/ | " | " | " | " | " | " | " | " | " | " | " | " | " | " | |
| " 64. Green | " | 39/ | " | " | " | " | " | " | " | " | " | " | " | " | " | " | |
| " LA SPECIALITE" SERIES IN FOLDING CARD BOXES. ATTRACTIVELY LABELLED. | | | | | | | | | | | | | | | | | |
| Screw glass stoppers, black seamless teats, and 7½-inch best quality black rubber tubes. Both bottles and boxes without manufacturers' names, &c. | | | | | | | | | | | | | | | | | |
| No. 65. White glass bottle, white glazed earthenware unions | ... | ... | without brushes | 39/ | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| " 66. Green | " | 37/ | " | " | " | " | " | " | " | " | " | " | " | " | " | " | |
| " 67. White | " | 40/ | " | " | " | " | " | " | " | " | " | " | " | " | " | " | |
| " 68. Green | " | 38/ | " | " | " | " | " | " | " | " | " | " | " | " | " | " | |
| FEEDING BOTTLES STRAIGHT NECK, WHITE GLAZED CAPS. (Each in Paper Bag.) | | | | | | | | | | | | | | | | | |
| No. 81. Green glass bottles, with white rubbers | ... | 20/ | per gross. | No. 83. Green glass bottles, with black rubbers | ... | 22/ | per gross. | | | | | | | | | | |
| " 82. White | " | 22/ | " | 84. White | " | 24/ | " | | | | | | | | | | |
| " LA SPECIALITE" FEEDING BOTTLES, BENT NECK. (Each in Paper Bag.) | | | | | | | | | | | | | | | | | |
| Per gross. | | | | | | | | | | | | | | | | | |
| No. 85. Green glass bottle, wood-top cork, with white rubbers | 21/ | 22/ | 23/ | No. 89. Green glass bottle, wood-top cork, with black rubbers | ... | 23/ | 25/ | | | | | | | | | | |
| " 86. White | " | 23/ | 24/ | 90. White | " | 24/ | 26/ | | | | | | | | | | |
| " 87. Green | " | 24/ | 25/ | 91. Green | " | 26/ | 28/ | | | | | | | | | | |
| " 88. White | " | 26/ | 27/ | 92. White | " | 27/ | 28/ | | | | | | | | | | |
| SEND FOR OUR NEW | | | | | | | | | | | | | | | | | |
| F LATS white flint, short neck— | Size | ½ | 1 | 1½ | 2 | 3 | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 20 oz. | | | |
| For corks | 4/6 | 5/ | 5/6 | 6/6 | 7/ | 8/ | 8/ | 9/ | 9/ | 15/ | 16/6 | 19/ | 23/ | per gross. | | | |
| Ground-glass stoppered | 14/ | 14/6 | 15/ | 16/ | 16/6 | 17/ | 20/ | 21/ | 27/ | 29/ | 32/ | 40/ | 40/ | 40/ | | | |
| F LATS, short neck, with cork ring and glass stopper. | 1 | 1½ | 2 | 3 | 4 | 6 | 8 | 10 | 12 | 16 | 20 oz. | | | | | | |
| Pale green glass | 7/ | 7/6 | 8/ | 8/6 | 9/ | 11/ | 11/ | 16/ | 17/ | 18/ | 24/ per gross. | | | | | | |
| White flint glass | 7/ | 8/ | 9/ | 10/ | 11/ | 12/ | 12/ | 18/ | 20/ | 23/ | 26/ | 26/ | 26/ | | | | |
| F LATS, long neck—Fig. 49. | 1 | 1½ | 2 | 3 | 4 | 6 | 8 | 10 | 12 | 16 | 8 oz. | | | | | | |
| Pale green glass | 5/ | 6/ | 6/6 | 7/ | 8/ | 7/6 | 7/ | 8/ | 9/ | 10/6 | 10/6 per gross. | | | | | | |
| White flint | 6/ | 7/ | 7/6 | 8/ | 9/ | 7/6 | 8/ | 10/ | 11/ | 13/6 | 13/6 | | | | | | |
| FURNITURE POLISH BOTTLES , pale green glass. | Size | 2 | 4 | 8 oz. | | | | | | | | | | | | | |
| With mouths for corks | 5/6 | 6/ | 7/ | 10/ | 11/ | 12/ | 12/ | 14/ | 15/ | 15/ | 15/ | | | | | | |
| Fitted glass stoppers and cork rings | 8/6 | 9/ | 10/ | 11/ | 11/6 | 12/6 | 14/6 | 15/ | 16/ | 16/8 | 16/8 | | | | | | |
| Fitted boxwood-topped corks | 10/ | 11/ | 11/6 | 12/6 | 14/6 | 14/6 | 14/6 | 15/ | 16/ | 16/8 | 16/8 | | | | | | |
| FURNITURE POLISH BOTTLES , panelled, pale green glass—WIDE MOUTH. | Size | 1 | 2 | 3 | 4 | 6 | 8 oz. | | | | | | | | | | |
| With mouths for corks | 5/6 | 6/6 | 7/ | 8/ | 9/ | 9/ | 11/ per gross. | | | | | | | | | | |
| Fitted glass stoppers and cork rings | 8/6 | 10/ | 10/6 | 11/6 | 12/6 | 13/6 | 13/6 | | | | | | | | | | |
| Fitted boxwood-topped corks | 10/ | 11/ | 11/6 | 12/6 | 14/6 | 14/6 | 14/6 | | | | | | | | | | |
| G LYCERINE BOTTLES, white flint glass— | Size | 2 oz. | ½ lb. | ½ lb. | 1 lb. | 1 lb. | glycerine. | | | | | | | | | | |
| Rounds with round shoulder | ... | ... | ... | ... | ... | ... | 13/ oz. fluid capacity. | | | | | | | | | | |
| Ovals, made extra heavy | ... | ... | ... | ... | ... | ... | 13/ per gross. | | | | | | | | | | |
| Glycerine panel flats or squares, white glass, 4 sides panelled, and lettered "Distilled Glycerine." | Fluid capacity | 1 | 2 | 4 oz. | 8/ | 8/ | per gross. | | | | | | | | | | |
| | | 6/ | 7/6 | 10/6 | 10/6 | 10/6 | per gross. | | | | | | | | | | |

BREFFIT'S (AIRE & CALDER BOTTLE CO.)
EVERY CLASS AND DESCRIPTION

HEARN'S BOTTLES

ARE THE BEST IN THE MARKET.

BOTTLES, &c., of ANY SHAPE OR COLOUR, at the most Reasonable Prices.

HEARN, WRIGHT & CO. (Late E. A. Hearn & Co.) Wholesale & Export Glass Bottle Manufacturers, Eclipse Glass Works, Chatsworth Road, Clapton, London, E.

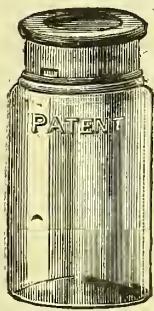
R. H. BARRETT'S PATENT CAPPED BOTTLE

THE ONLY REALLY PERFECT BOTTLE FOR VASELINE, POMADES, DRY POWDERS, ETC.

NOTICE REDUCTION IN PRICES.

PRICES (in 5-gross Lots):—Fitted with STRONG METAL CAPS, CORK-LINED, in various colours, very attractive in appearance—1 oz., 10/6; 1½ oz., 11/-; 2 oz., 11/6; 8 oz., 13/6; 4 oz., 15/6 per gross. TALL SERIES.

CHEMISTS' AND PERFUMERS' BOTTLES IN GREAT VARIETY, PLAIN OR STOPPED.



R. H. BARRETT,
FLINT GLASS BOTTLE WORKS,
THE OVAL, CAMBRIDGE HEATH, LONDON, E.
Telegraphic Address—"FOREFRONT LONDON."

SHOP BOTTLES & JARS

WITH VITRIFIED (burnt in) LABELS

(Black Letters on a ground of Pink or White Enamel).



Labels indestructible and of elegant appearance, forming an even surface with the glass or porcelain. The Jars of best porcelain, thoroughly greaseproof. The Bottles hand-made and of superior quality. Both are unsurpassed by anything in the market in every respect. Also a CHEAPER sort of Bottles and Jars, with labels equally indestructible, but very plain, especially suitable for Dispensaries, &c. Intending Buyers are requested to inspect Samples at

H. POTHS & CO., 4 CREECHURCH LANE, LEADENHALL STREET, E.C.

SEE OUR ADVERTISEMENT ON PAGE 5 (bottom folio) OF ISSUE OF MAY 13, 1893.

DISPENSING BOTTLES, &c.

SHIPPERS OF THESE GOODS ARE INVITED TO SEND THEIR ENQUIRIES TO

E. YOULDON (ESTABLISHED 1840)

EAST LONDON GLASS BOTTLE WAREHOUSE,
36, 38 & 40 GREAT GARDEN STREET, LONDON, E.

GREEN FLINT DISPENSING BOTTLES

Flat, without Edges.

WITH MAW'S TRADE MARK SUPER.

| | | | | | | | |
|----------|---------------|---------------|------------|------------|------------|------------|----------------------|
| 2
9/3 | 3 & 4
10 9 | 6 & 8
12 - | 10
18 - | 12
18 - | 16
21 6 | 20
27 - | ounce.
per gross. |
|----------|---------------|---------------|------------|------------|------------|------------|----------------------|

ORDINARY TINT, SECOND QUALITY, 2.

| | | | | | | | |
|----------|--------------|--------------|------------|------------|------------|------------|----------------------|
| 2
6/8 | 3 & 4
8 - | 6 & 8
9 6 | 10
12 - | 12
13 6 | 16
18 9 | 20
21 6 | ounce.
per gross. |
|----------|--------------|--------------|------------|------------|------------|------------|----------------------|

PRICES in CRATES OF 6 to 8 GROSS. CRATES FREE.

Not less than 1 gross of a size.

WITH MAW'S TRADE MARK SUPER.

| | | | | | | | |
|----------|---------------|---------------|------------|------------|------------|------------|----------------------|
| 2
9/- | 3 & 4
10 3 | 6 & 8
11 6 | 10
17 6 | 12
17 6 | 16
21 - | 20
26 - | ounce.
per gross. |
|----------|---------------|---------------|------------|------------|------------|------------|----------------------|

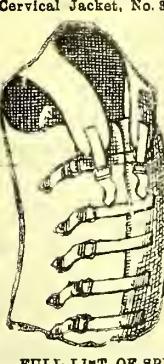
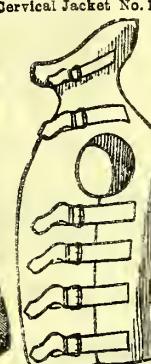
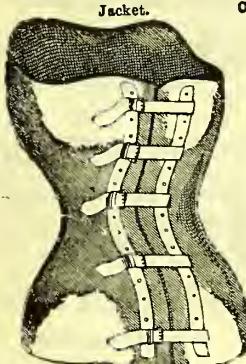
ORDINARY TINT, SECOND QUALITY, 2.

| | | | | | | | |
|----------|--------------|--------------|------------|------------|------------|------------|----------------------|
| 2
6/6 | 3 & 4
7 6 | 6 & 8
9 - | 10
11 3 | 12
12 6 | 16
17 6 | 20
20 - | ounce.
per gross. |
|----------|--------------|--------------|------------|------------|------------|------------|----------------------|

USUAL DISCOUNT. NOT LESS THAN £5 WORTH CARRIAGE PAID.

S. MAW, SON & THOMPSON, 7 to 12 Aldersgate Street, LONDON.

COCKING'S ADAPTABLE PORO-PLASTIC JACKETS AND SPLINTS. Patente and Sole Manufacturer, J. T. COCKING, PLYMOUTH.



JACKET
(In cases of slight deformity.)
**INSTRUCTIONS
FOR MEASUREMENT.**
Circumference at axilla.
" " waist.
" " hips.
Length from axilla to great trochanter.

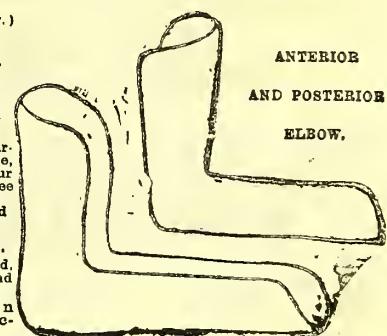
In severe angular cases, circumference over apex of curve, position of ditto, and contour should be given; in general cases a description of the case.

In all cases it must be stated if for male or female.

CERVICAL JACKETS.

Same measurements required, and circumference at neck, and length from neck to axilla.

Any part of the in the process of nature be left



FULL LIST OF SPLINTS AND PORO PLASTIC IN SHEETS MAY BE HAD ON APPLICATION.

SOLPORT BROS.

66, Shaftesbury Street,
New North Road,

Telegrams—
"SOLPORT, LONDON."

LONDON, N.

Manufacturers for Wholesale and Export of

BATH & FLESH GLOVES, STRAPS, PADS, &c.

CHEST PROTECTORS, CORN and BUNION PLASTERS, &c.

LOOFAHS & LOOFAH GOODS.

Buyers and Shippers should write for our full Illustrated Price List.

VINCENT WOOD'S
is the NATIONAL HOUSE

FOR

**SURGICAL
APPLIANCES**

Special orders invariably
despatched same day as
received.

Goods procurable
from all Wholesale
Houses or from Pa-
tentees.

Established over 50 years.

Head Office: 3 St. Andrew's St., HOBORN CIRCUS, E.C.
Steam Works and Rubber Mills: RUSSELL ST., NOTTINGHAM;
Also at MAIN ST., CARLTON, NOTTS;
And Engineering Works: Railway Arches, Herne Hill, S.E.



Suspensory Bandages from 2s. per doz.

KAHNEMANN & KRAUSE,
VIENNA,

Manufacturers of all kinds of

**ASEPTIC AND ANTISEPTIC
SURGICAL DRESSINGS, &c.**

Special Novelties of the Vienna Medical School, as used by
Drs. BILLROTH, BRAUN, CHIARI, MOSETIG, &c., &c.

SOLE MANUFACTURERS OF THE

NEW PATENT BANDAGE ROLLS
SPECIALLY ADAPTED FOR HOSPITAL USE.



These Rolls, which, on account of their greater convenience and cheapness, are rapidly replacing the ordinary calico bandages, are made in bleached and unbleached cottons and gauzes, from 33 inches to 36 inches wide, from which bandages of any width can be easily cut as required, the edges remaining quite firm and smooth.

Each Roll is packed separately in a box, and has attached to it a gauge divided into inches to cut by.

AGENT FOR GREAT BRITAIN—

H. GODWIN, 2 St. George's Avenue, ALDERMANBURY, E.C.

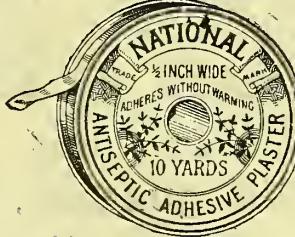
**"NATIONAL" { Trade
Mark.
RUBBER
ADHESIVE
PLASTER.**

On Strong Cotton Cloth.

Will always stick at once, and perfectly, in any temperature,
without warming.

In Tins containing $\left\{ \begin{array}{l} \frac{7}{8} \text{ inches} \times 1 \text{ yard} \\ \frac{7}{8} \text{ " } \times 6 \text{ " } \end{array} \right.$ and on $\left\{ \begin{array}{l} \frac{1}{2} \text{ in.}, \frac{1}{2} \text{ in.}, 1 \text{ in.} \\ \frac{1}{2} \text{ in.}, 2 \text{ in.}, \text{ and } 3 \text{ in. wide.} \end{array} \right.$ Handsome Spools

MANUFACTURED BY
A. de St. DALMAS & CO., LEICESTER.



WATERPROOF

HOSPITAL
SHEETINGS.

PINK
JACCONET.



THE VICTORIA RUBBER CO., LIM.

London Office and Warehouse—74 and 75 FORE STREET, E.C.

FABRICS, ETC.

BANDAGE
CLOTHS.

WATER-
PROOF
LINT.

Victoria Indian rubber Mills, EDINBURGH.

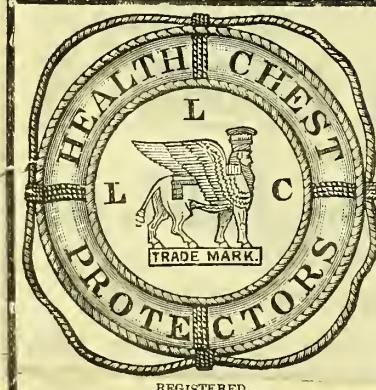
Samples, &c., on application.

ESCHMANN BROS. & WALSH.
Inventors and Manufacturers of the
SOFT SILK FLEXIBLE CATHETER, GUARANTEED WITH WOVEN EYES.

To be had of all Surgical
Instrument Makers
and Wholesale Houses.



To be had of all Surgical
Instrument Makers
and Wholesale Houses.

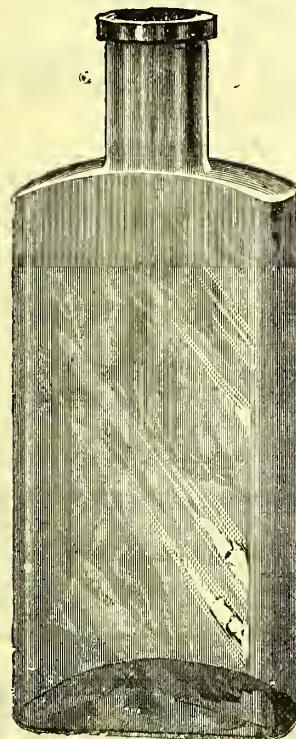


The Original Make of Fleecy Stockinette
CHEST PROTECTOR
INTRODUCED and MANUFACTURED by
THE LIVERPOOL LINT CO., LIVERPOOL.

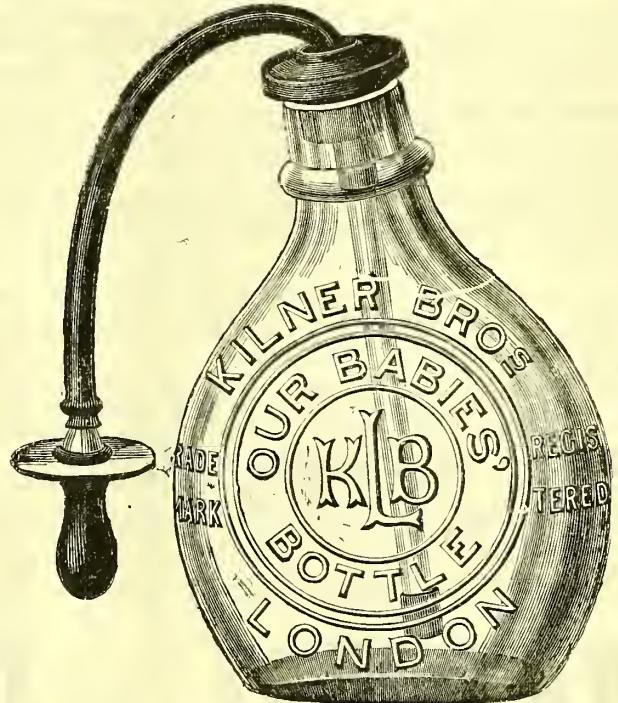
The "HEALTH" PROTECTORS are equal in SIZE and SUPERIOR
In Quality, Workmanship, and Weight to all other makes.

BEFORE PLACING ORDERS WRITE FOR SAMPLES FOR
COMPARISON ON THESE POINTS.

GLASS BOTTLES



DISPENSING.



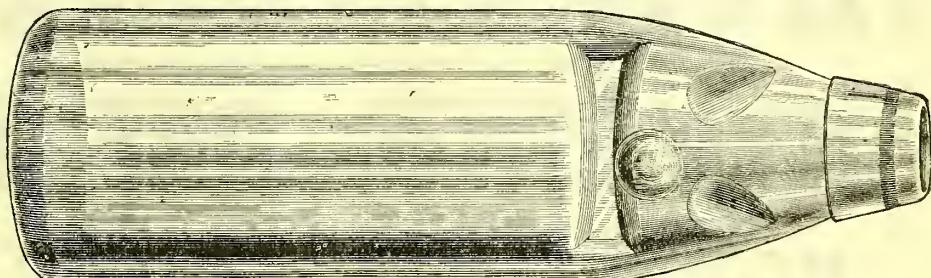
FEEDING.

MINERAL WATER BOTTLES

Of all kinds and sizes for STOPPERS and CORKS.

CODDS' BOTTLE

TWO-WAY.



Also VAN BOXES and CASES for same.

Full particulars of above and many other kinds, sent on application to

KILNER BROTHERS,
No. 3 GREAT NORTHERN GOODS STATION, KING'S CROSS, LONDON.

ADDRESSED TO CHEMISTS AND DRUGGISTS. AGENTS WANTED.

Dr. MARTIN'S PURE RUBBER BANDAGES (GENUINE)

(REGISTERED TRADE MARK)

For the Radical Cure of Varicose Veins, Weakness, Ulcers, Eczema, and other Diseases of the Leg, and for injuries of the Knee and Ankle Joints.

Handsome transparent Show Cards, measuring 12 in. by 8 in., for Chemists' windows, will be forwarded post free on application. If a quantity can be used to advantage, we shall be pleased to forward same.

CAUTION TO THE TRADE.—The Sole Agents for the sale of the Martin's Bandages caution the Trade against purchasing or recommending Worthless *Imitations*, which are largely sold, advertised as "Recommended by Dr. H. A. Martin," or as "Suggested by Dr. H. A. Martin," which is misleading, the vendors having not a shadow of a title to use Dr. H. A. Martin's name in connection with their bandages.

When ordering bandages through other houses than from Messrs. KROHNE & SESEMANN, the Trade is requested to insist on being supplied with the Genuine Bandages stamped with Dr. H. A. Martin's facsimile Signature in carmine ink, as shown here, as otherwise worthless imitations are likely to be substituted. Every bandage thus marked is guaranteed to be perfect and to wear well.



PRICES.

| ft. in. | each | ft. in. | each |
|----------------------|------|---------|-------------------------------|
| 6 x 2 $\frac{1}{4}$ | 3/6 | No. 8 | Thin, for leg and knee |
| 6 x 2 $\frac{1}{4}$ | 4/0 | No. 7 | Thick ditto |
| 10 $\frac{1}{2}$ x 3 | 5/6 | No. 9B | Thin, for leg and thigh |
| 10 $\frac{1}{2}$ x 3 | 7/6 | No. 9A | Thick ditto |

Prices subject to Trade discount. Special Terms for Export to Shippers and Colonial Agents.

For other sizes see complete Price List; also Dr. H. A. Martin's Pamphlet, describing Method of Treatment, which are sent post free on application to the Sole Wholesale Agents for Europe, Asia, Africa, and Australia.

KROHNE & SESEMANN, SURGICAL INSTRUMENT MAKERS,
8 & 38, DUKE STREET, MANCHESTER SQUARE, LONDON, W.

Agents for the International Society for the Manufacture of Wound Dressing Materials (Limited), Schaffhausen. Patentees of Dr. Siegle's Steam Spray Inhaler, the New Pliable Metal Temperature Regulators, Dr. Paquin's Thermo-Cautère, Improved Personal Urinals for Ladies and Gentlemen, and Sole Makers of Improved Anæsthetic Inhaler. with Patent Respiration Indicator.

SURGICAL DRESSINGS,
FLAX AND COTTON COTTON WOOLS,
LINT ABSORBENT
TRADE MARK (REGISTERED).
BANDAGES,
GAMGEE TISSUE.

ANTISEPTIC DRESSINGS

MANUFACTURED BY

ROBINSON & SONS, Ltd.

COTTON SPINNERS, WEAVERS AND BLEACHERS,

WHEAT BRIDGE MILLS, CHESTERFIELD,
And 55 Fann Street, Aldersgate Street, LONDON, E.C.

ASK FOR ROBINSON'S "STAG" BRAND WHEN ORDERING FROM THE WHOLESALE HOUSES.
138

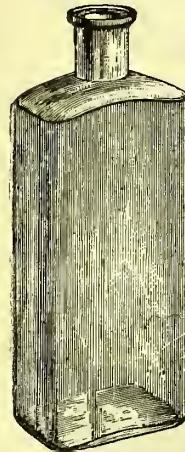
ORIGINAL AND **SUPERIOR** ROUND-CORNERED

DISPENSING BOTTLES

GILBERTSON'S

(No. 118583)

ARE UNEQUALLED IN QUALITY AT PRICES CHARGED.

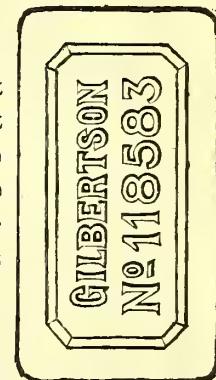
SPECIAL NOTICE.

We particularly ask those friends for whom we have cut NAME PLATES to stipulate when ordering lettered bottles that Gilbertson, No. 118583, is on the bottom of each bottle, as we understand Travellers (other than our own) are offering to utilise our Plates, which is manifestly unfair to us, we having introduced and put on the market at great expense Dispensing Bottles with Rounded Corners now universally in use.

Usual Discount. Crates Free. Carriage Paid.

11 ST. ANDREW STREET, HOLBORN CIRCUS, LONDON.

Telegraphic Address:—"FRANGIPANI LONDON."



BOTTOM OF BOTTLE.

DISPENSING BOTTLES.**THE NORTH LONDON CLASS BOTTLE COMPANY**

(I. ISAACS & CO., Proprietors)

Beg to inform the Trade that they have made a further reduction in the price of their Bottles, as follows:—

The NEW SHAPE FLAT BOTTLES, with rounded edges, plain or graduated—

| | | | |
|--------------|----------------|----------------|-----------------|
| 3 & 4 oz. .. | 7/6 per gross. | 10 & 12 oz. .. | 12/- per gross. |
| 6 „ 8 „ .. | 8/6 | 16 „ .. | 16/- |

WHITE MOULDED PHIALS, plain or graduated Teaspoons—

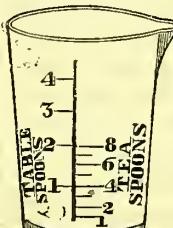
| | | | |
|----------|----------------|-----------|----------------|
| ½ oz. .. | 3/6 per gross. | 1½ oz. .. | 4/6 per gross. |
| 1 „ .. | 3/9 | 2 „ .. | 5/- |

PLEASE NOTE.

Six gross and upwards, assorted or otherwise, are carriage paid to any address in England; smaller quantities not carriage paid.

I. ISAACS & CO., Glass Bottle Manufacturers,
106 MIDLAND ROAD, ST. PANCRAS, LONDON.

Established 50 years. Bankers—London and Westminster Bank.

GRADUATED GLASS MEASURES

BOAT-SHAPE FEEDERS,
BOTTLES, FUNNELS,
SYRINGES,
THERMOMETERS,
DRUCCISTS'
CLASSWARE,
AND

CHEMICAL APPARATUS
OF EVERY DESCRIPTION.
Shipping and Wholesale Trade
only.

**F. H. TAYLOR & CO.**

Glasshouse Yard, LONDON, E.C.

A GOOD LINE FOR THE TRADE.**MEDICINE TIME INDICATOR**

And POISON PREVENTIVE.

This invention is for use on Medicine Bottles, for recording the time of last dose or when the next dose should be given. It also distinguishes medicine bottles from others containing poisons or preparations not intended to be taken. It comprises a label or tablet of paper, upon which is printed a series of numbers from 1 to 12 inclusive. A pointer is arranged in connection with the label so that it might be set opposite any of the numbers to indicate the time when a dose was last taken or when it should be next given. The label is gummed to or suspended from the bottle, or it may be placed in any convenient position in the patient's room if medicine for internal use only is being administered. It enables the patient or nurse to readily distinguish the bottle, thus obviating the liability to accidents, and is valuable for family use, by nurses in hospitals, for travellers, or for general use by Doctors and Chemists.

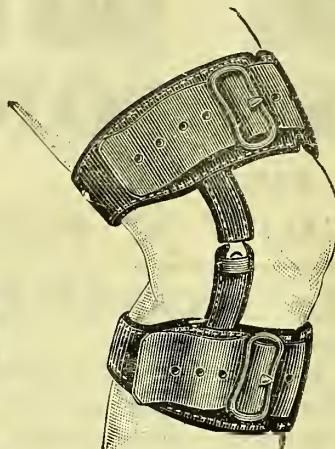


*Special Terms to the Trade. Apply to the Patentee—
J. FEAVER, 83 Croydon Rd., ANERLEY, S.E.*

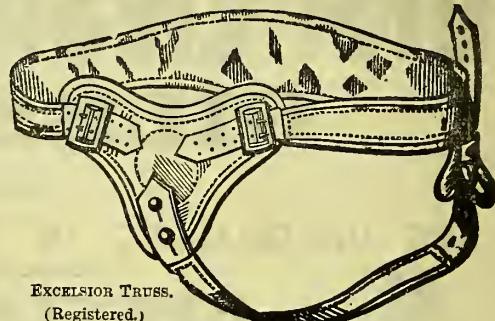
SURGICAL APPLIANCES.



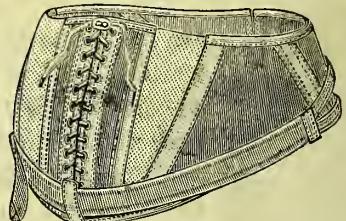
PATENT.—NEW STYLE.
Pressing back the Shoulders, but
not Chafing under Arms.



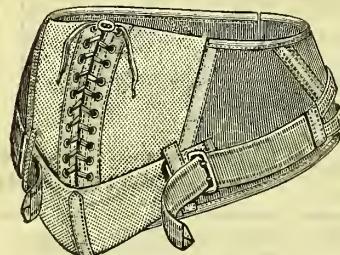
Knee Support.



EXCELSIOR TRUSS.
(Registered.)



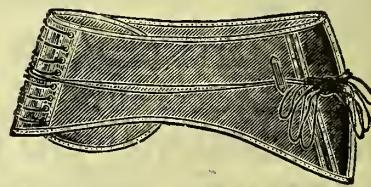
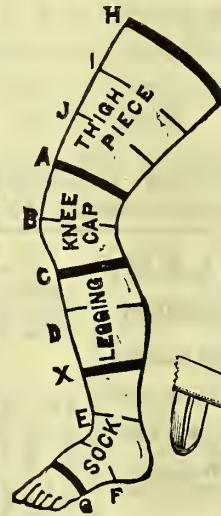
Ladies' (No. 439) Belt,



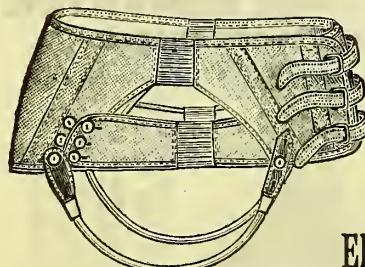
Ladies' (No. 438) Belt.



Adjustable
Stocking.

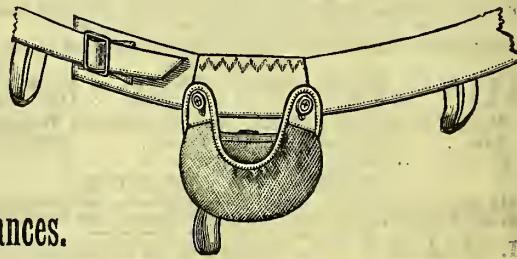


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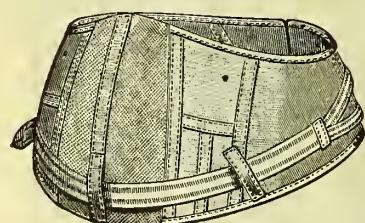


No. 429.

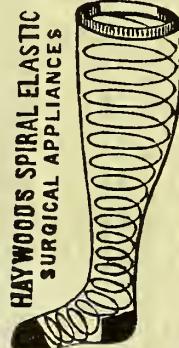
Elastic Surgical Appliances.



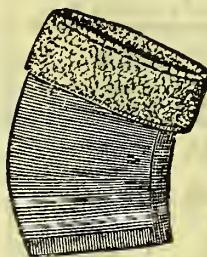
"Octopus" Suspender (Registered.)



No. 437.



HAYWOOD'S SPIRAL ELASTIC
SURGICAL APPLIANCE



Patent Pile. Protected.

The Pile lying over the India-rubber Cords, protecting them and forming a smooth, soft surface to the limb.

(Seamless). Patent.

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MANUFACTURING CHEMISTS,

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MEDICINAL AND SURGICAL PLASTERS IN RUBBER COMBINATION

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AN IMPROVED CANTHARIDAL PLASTER

The only perfect Vesicant.

Vesicates in half the time of other Vesicants.

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Made with the idea of giving the exact effect of Belladonna quickly, surely, every time alike.

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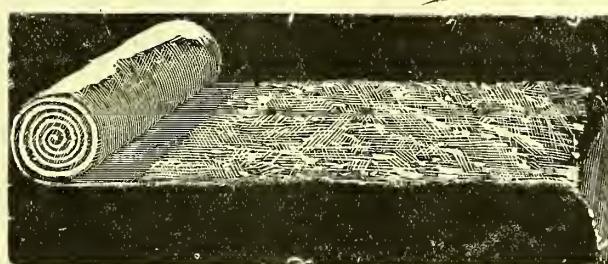
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Rolled with Tissue Paper between to prevent felting. AS EASILY APPLIED AS A CLOTH BANDAGE.

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IMPROVED SOFT FLEXIBLE CAPSULES

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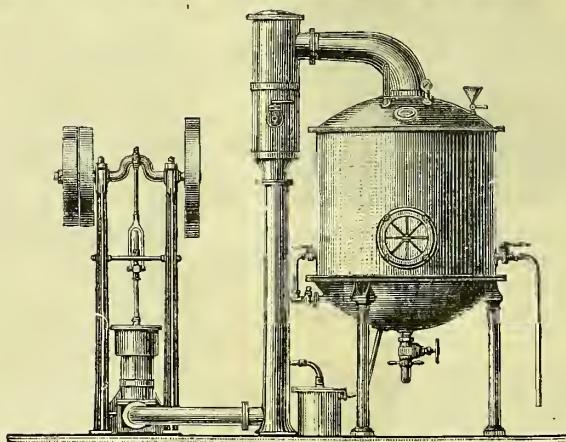
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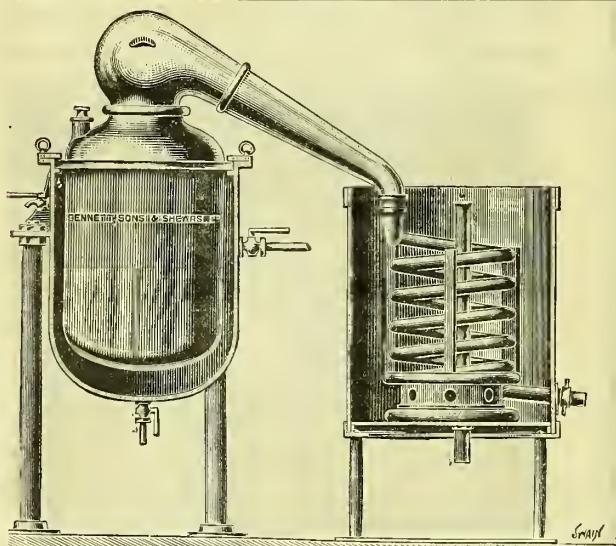
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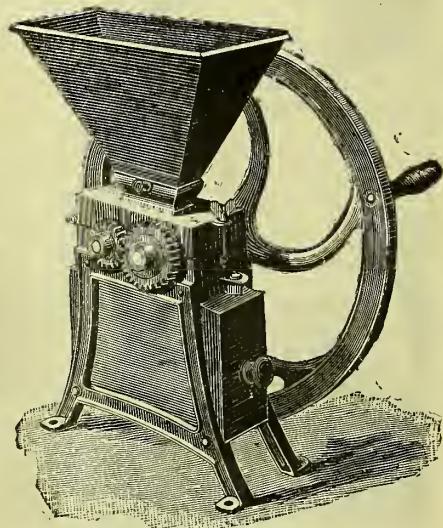


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(Works—CASTLE STREET),

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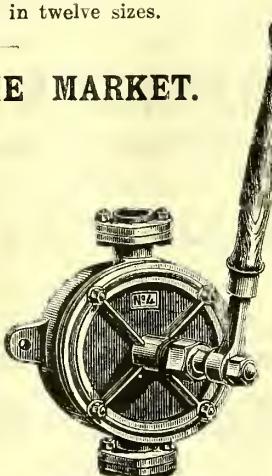
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These Pumps are double-acting. The working parts are of metal, and the wear and tear is reduced to a minimum; they are lighter and occupy less space than any other pumps of equal capacity, and are self-contained. We are at present supplying them in twelve sizes.

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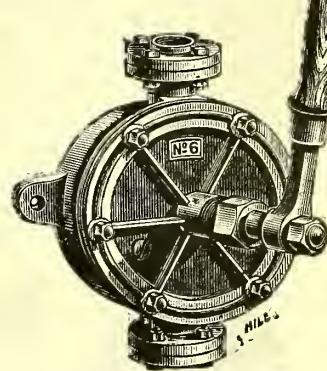
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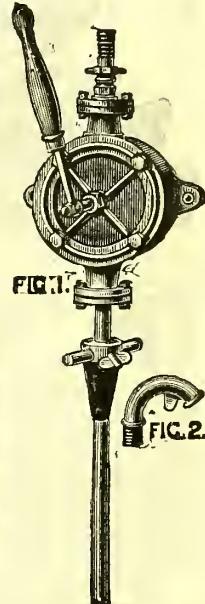
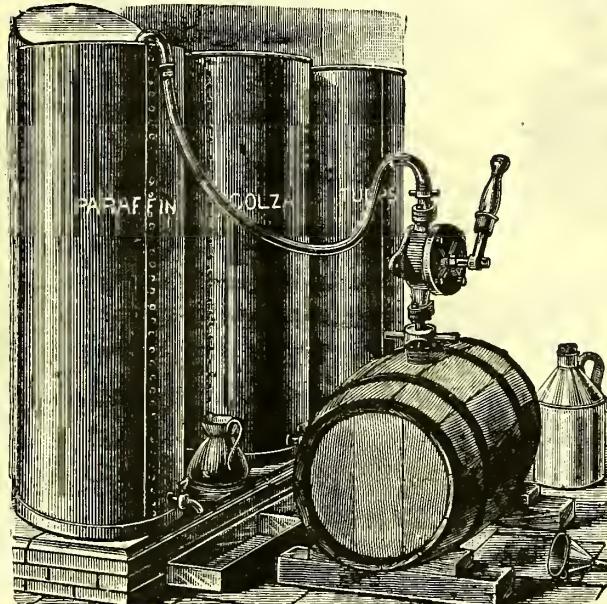
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THE "Willcox-Farringdon" PATENT BARREL PUMP.

For Pumping Oils, Wines, Spirits, and other Liquids from Casks, &c.

This is a representation of our "WILCOX - FARRINGDON" PATENT PUMP, with Improved Taper Barrel Attachment. It is easy to work and simple in construction, and is admitted to be the best article in the market for Pumping Paraffin Oil, and all kinds of Liquid from barrels or tanks into other receptacles.



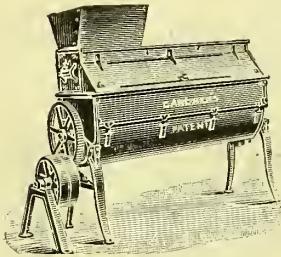
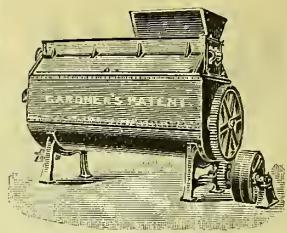
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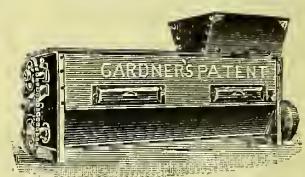
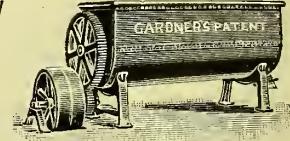
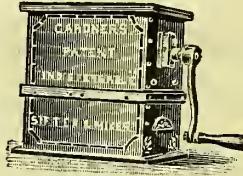
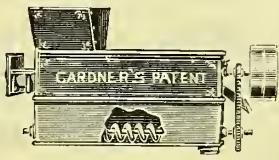
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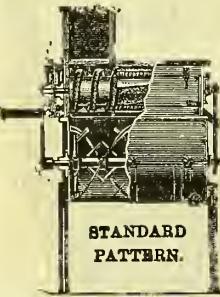


For simultaneously reducing Lumps and Sifting and Mixing every class of Dry Powders.



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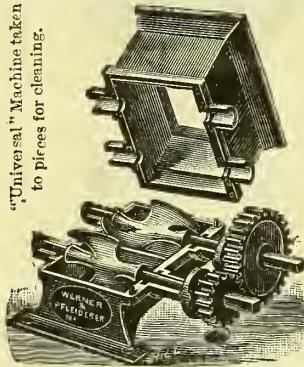
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Telegrams: "Gardner, Gloucester."
FOREIGN AGENTS WANTED.



"Universal" Machine taken
to pieces for cleaning.



Size 3, Type I., for 1-lb. Mass.

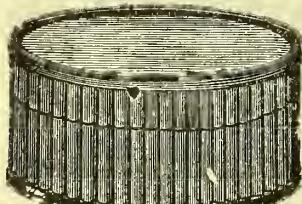
THE "UNIVERSAL"
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Used by all the largest Pill Makers.
SUITABLE ALSO FOR
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Consistency.

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CUTTERS,
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"SPIRAL BRUSH"
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(WITH INTERCHANGEABLE SIEVES),
And every Accessory for the Pill Room.

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MANUFACTURE THE FOLLOWING SPECIALITIES—

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The Grease-Proof Covered Pots have perfectly-fitting lids, are practically unbreakable and the only articles really answering the purpose intended
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Wholesale only of the Company.

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ROUND CARDBOARD BOXES

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in
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Shoulder
and Lid of
Box
Coloured. | |
|-----|---------------------------|------------------------|-------------------|---|--|
| 5 | 2 | 1 | Per gross.
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8/6 | |
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PARABOLIC REFLECTOR
AND
SAFETY READING LAMP.

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Carriage paid.

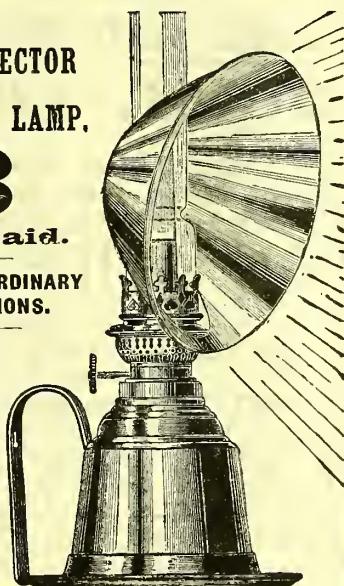
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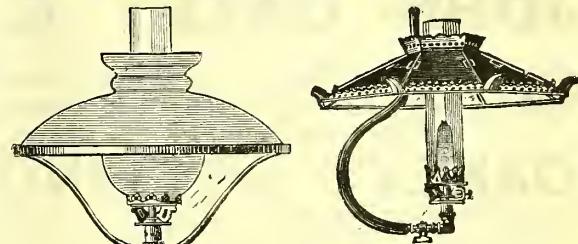
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TREBLE THE LIGHT WITH HALF THE GAS
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SUPERIOR TO ELECTRIC LIGHT

At One-eighth the Cost.

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BRILLIANT, COOL, SOFT, STEADY LIGHT.

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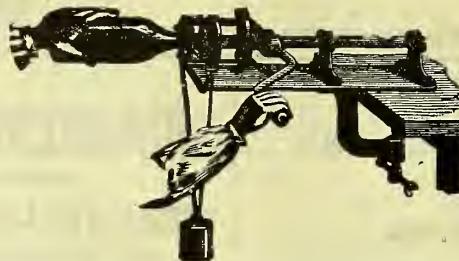
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The only Machine
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Can be fixed to any
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 A single pull of the lever
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A Necessary for all Invalids.
A Comfort to Everybody.

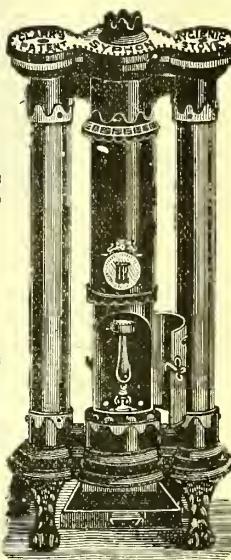
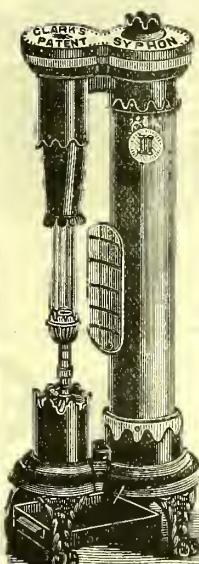
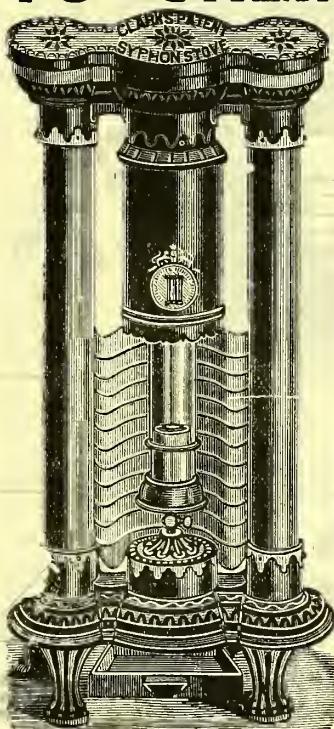
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FREE FROM SMELL OR SMOKE.

All injurious vapours are reduced to harmless liquid inside the Stove, and passed out at foot into a tray provided for that purpose.

For use in Hospitals, Sick Chambers, Bedrooms, Halls, Conservatories, Schools, Shops, &c.

A LIBERAL DISCOUNT ALLOWED.

The "Syp" Stove is admirably adapted for heating Chemists' and Druggists Shops and Stores. The heat is evenly diffused, and can be graduated or sustained at pleasure.



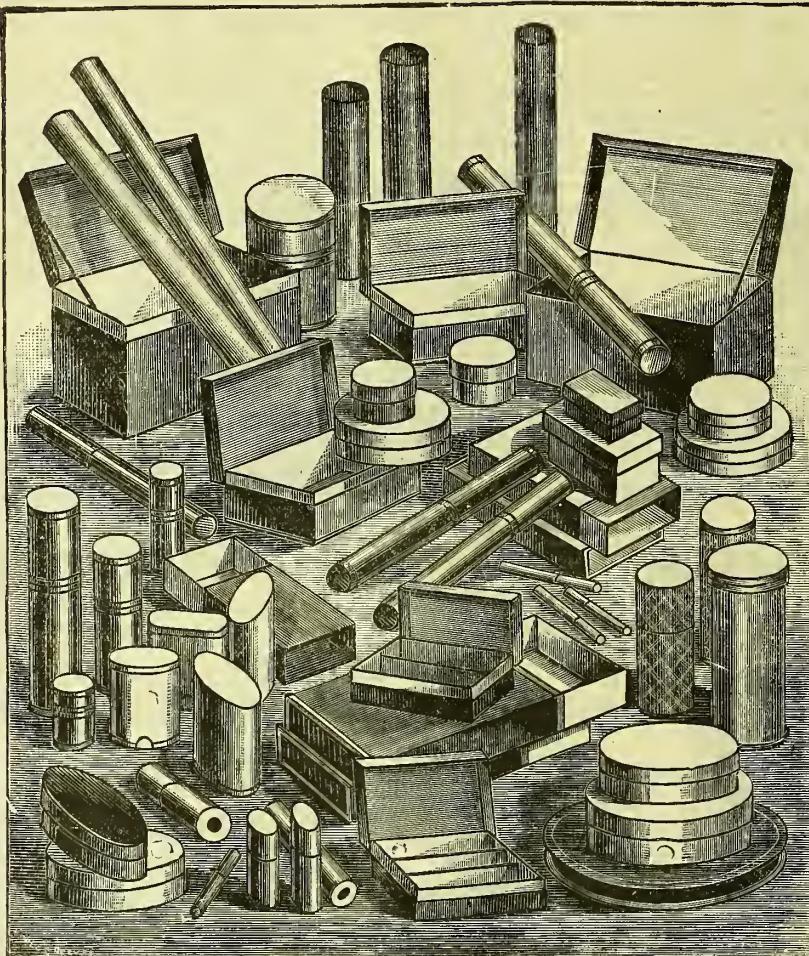
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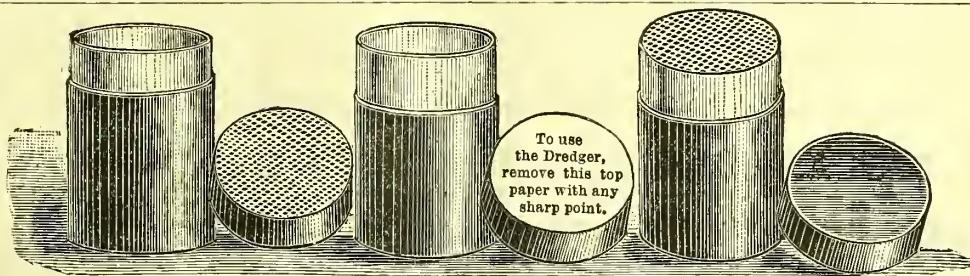
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User's Name and Directions printed on the Tops at from $\frac{1}{4}$ d. per gross extra.

INSECT POWDER BOXES.

COVERED IN ANY STYLE TO SUIT PURCHASERS.



A PERFORATED ZINC ON TOP OF LID.

B " " but covered with a printed card, which can be removed to dredge the Powder.

C " " INSIDE THE BOX, the shoulder being left loose for filling.

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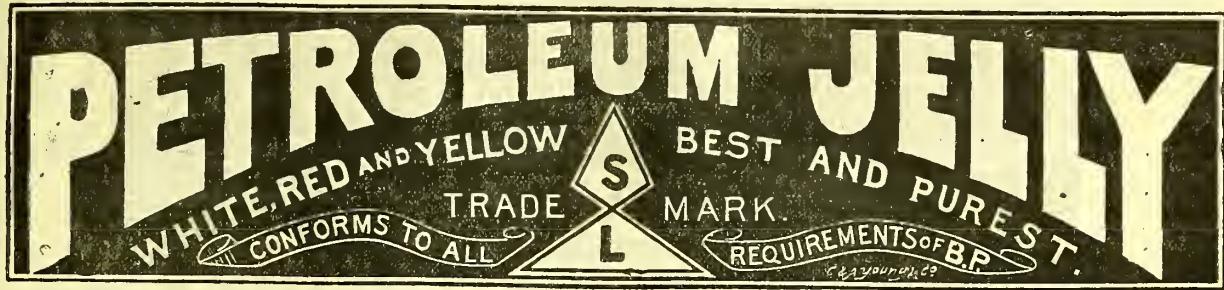
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24/-

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We beg the favour of your attention to the following **REPORT** on our Petroleum Jellies

BY
Dr. S. RIDEAL, D.Sc.Lond., F.I.C., F.C.S.,

Lecturer on Chemistry at St. George's Hospital Medical School.

"JANUARY 3rd, 1895.

PETROLEUM JELLY.

The samples of Petroleum Jelly received on December 20th, 1894, and marked Yellow No. 1, and Yellow No. 2a, have been examined by me, and I find that they possess the following characteristics:—

| | Melting Point. | Specific Gravity.
Liquid. @ 140°F. | Specific Gravity.
Solid. @ 60°F. | Flashing Point.
Open. | Flashing Point.
Closed. |
|-------------------|----------------|---------------------------------------|-------------------------------------|--------------------------|----------------------------|
| Yellow No. 1 ... | 95° | .868 | .898 | 432° | 426.5° |
| Yellow No. 2a ... | 85° | .866 | .895 | 430° | 414° |

Both samples were tested for saponifiable fat and resin, but neither of these substances were present. There was no ash in either sample, and in colour and general appearance showed that they had been carefully manufactured. They were also practically free from any taste, and contained no traces of any free acid.

I believe that both qualities are high-class Petroleum Jellies.

In addition to the above tests, I find that Yellow No. 1 passes all the B.P. requirements for Paraffinum Molle, and both being vaselines may be used as the equivalents of 'Vaseline.'"

We shall be happy to submit samples and prices upon application, stating quantity and packages required.

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Make an attractive show and find a
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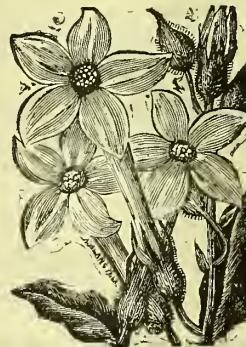
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On $\frac{1}{2}$ -gross cards 5/3

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***SALINE POWDERS**
1-gross glass-top boxes at 2/9

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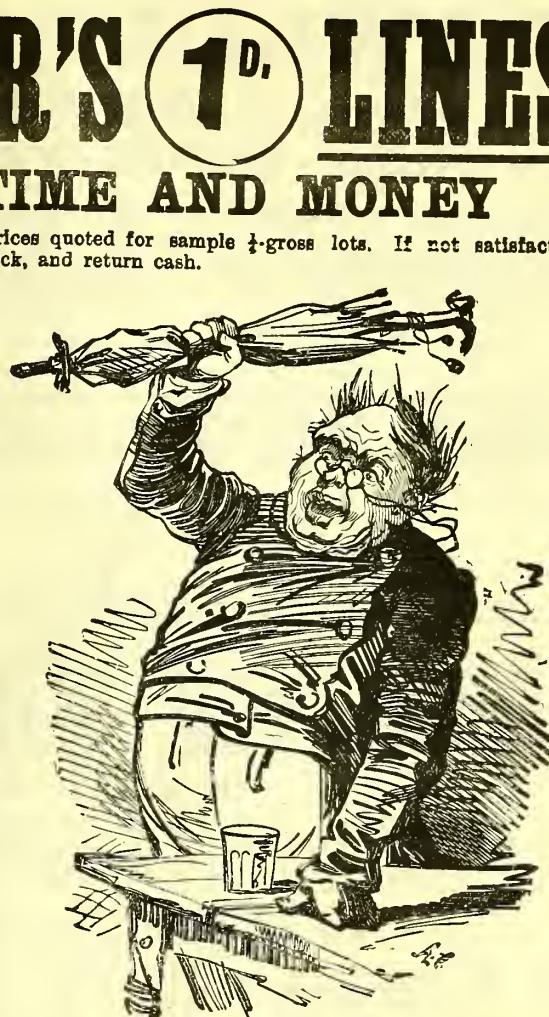
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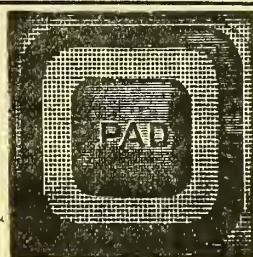
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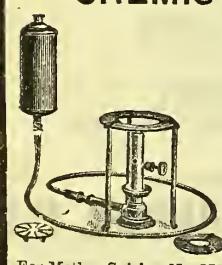
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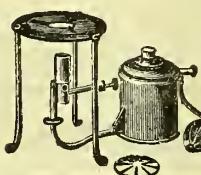
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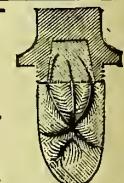


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LUNG TROUBLES,

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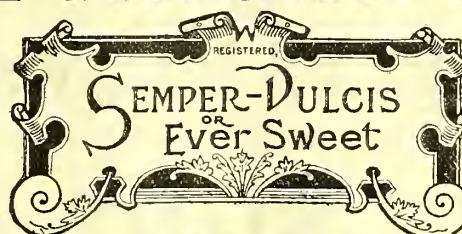
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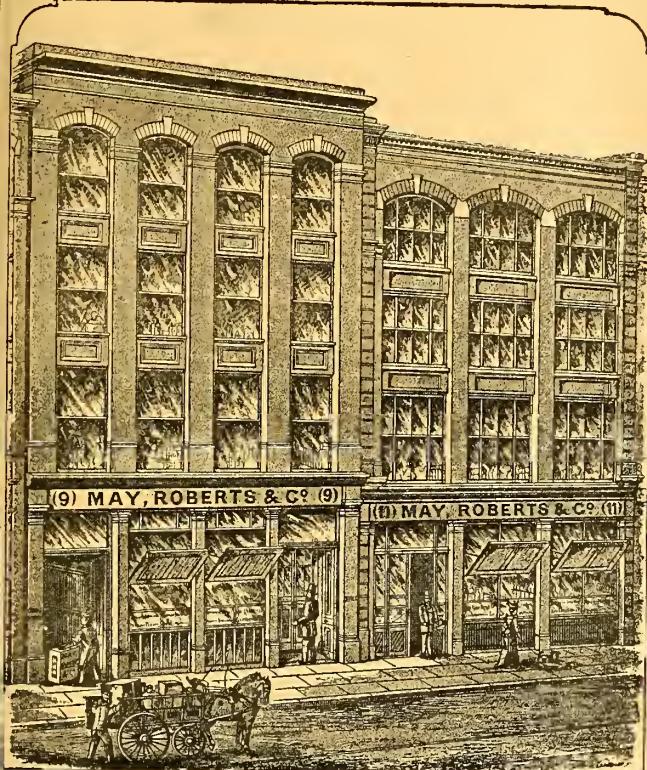
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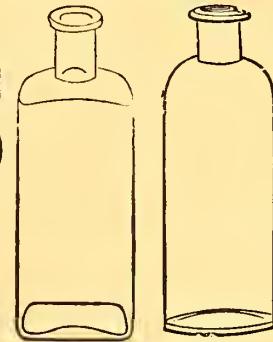
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|-----|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------------|------|--------|
| 1/- | 1½/- | 2/- | 3/- | 4/- | 6/- | 8/- | 10/- | 12/- | 18/- | 18/- | 21/- | 20/- | 27/- | 32/- | 43/- | 49/- | ounce. |
| 9/- | 9/- | 9/3 | 10/9 | 10/9 | 12/- | 12/- | 18/- | 18/- | 21/6 | 21/6 | 27/- | 32/6 | 43/- | 49/- | per gross. | | |

QUININE TINT. *M.R. Brand. Very Best Quality.*

| | | | | | | | | | | | | | | | |
|-----|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------------|
| 1/- | 1½/- | 2/- | 3/- | 4/- | 6/- | 8/- | 10/- | 12/- | 16/- | 20/- | 24/- | 30/- | 40/- | 47/- | ounce. |
| 8/9 | 8/9 | 8/9 | 9/10 | 9/10 | 11/3 | 11/3 | 16/9 | 16/9 | 16/9 | 20/- | 24/- | 30/- | 40/6 | 47/- | per gross. |

ORDINARY TINT. *M.R. Brand. Second Quality.*

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|-----|------|-----|-----|-----|-----|-----|------|------|-------|------|------|------|------|------|------|------------|
| 1/- | 1½/- | 2/- | 3/- | 4/- | 6/- | 8/- | 10/- | 12/- | 16/- | 20/- | 24/- | 32/- | 26/6 | 29/- | 40/- | ounce. |
| 6/7 | 6/7 | 6/7 | 7/3 | 7/3 | 8/6 | 8/6 | 10/9 | 12/3 | 16/10 | 19/3 | 22/9 | 26/6 | | | | per gross. |

PRICES: IN CRATES SENT DIRECT FROM THE WORKS.

W. Brand.

| | | | | | | | | | | | | | | | |
|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------------|
| 8/10 | 8/10 | 9/- | 10/3 | 10/3 | 11/6 | 11/6 | 17/6 | 17/6 | 21/- | 26/- | 31/6 | 41/6 | 47/- | 40/- | ounce. |
| | | | | | | | | | | | | | | | per gross. |

M.R. Brand. Very Best Quality.

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------------|
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|-----|------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------------|
| 1/- | 1½/- | 2/- | 3/- | 4/- | 6/- | 8/- | 10/- | 12/- | 16/- | 20/- | 24/- | 32/- | 25/3 | 28/9 | 40/- | ounce. |
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The Chemist & Druggist

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Auction Sales

SATURDAY, MARCH 23, 1895

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

IMPORTANT NOTICE.

The Circulation of THE CHEMIST AND DRUGGIST SUPPLEMENT for March 30 will exceed

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6.—£400.—**LONDON, N.**—Dispensing and Retail, situated in a residential locality; returns about £450; all good profitable business; well-fitted shop; good stock; house has 8 rooms and private entrance; held on lease; price £350.

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WANTED, a qualified Assistant; one who has had some experience in travelling preferred. Address, giving the usual particulars, "Chemist," The Poplars, Sunderland.

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QUALIFIED Assistant wanted; outdoors; experienced man, capable of taking sole charge; easy hours and no Sunday duty. Apply, stating age, references, &c., to W. Fowlds, Chemist, Kcighley.

AT once, qualified Assistant; aged about 24; good Dispensing experience and obliging; indoors. Apply personally, or write full particulars, Walter Green, Ph.B., 288 Elgin Avenue, Maida Vale, W.

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LOCUM- TENENS; 25; disengaged; good Dispenser. Slynne, Wroxeter, Warren Road, Rhyl.

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WHOLESALE or Export, Wet or Dry; experienced. Forbes, The Village, Tarland, Aberdeenshire.

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JUNIOR; 5 years' experience; Photography, Extractor; outdoor preferred. "Vimolia," 66 Belgrave Gate, Leicester.

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LOCUM-TENENS or Assistant; 13 years' good experience; disengaged. "Chemicus," Duniford House, Oehlensford Street, Weymouth.

UNQUALIFIED; at once; good references; time for study. 182/3, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

R.D.S. and A.P.S.; abstainer; 36; temporary or permanent; highest references. E. Hitchcock, 11 Park End Street, Oxford.

JUNIOR, Branch Manager, or Locum; 22; 5 ft. 6 in.; 8 years' experience; unqualified; disengaged. Wild, 41 Woodfield Road, South Shore, Blackpool.

LONDON or district.—Junior Assistant; good Dispensing experience; highest references; abstainer. G. W. Green, 7 Newton Terrace, Bishophill, York.

IMPROVER or Junior; Country experience; disengaged; salary important; easy distance Bloomsbury preferred. S., Liquor Carnus Co., Aston Clinton.

MANAGER, Branch, Temporary, or otherwise; good Prescriber, Extractor, &c.; single; well experienced; disengaged. W., 53 West Square, S.E.

CHEMIST and Dentist (qualified) desires engagement; experienced; married. "Spes," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

W. SPYVEE, Chemist, Sleaford, recommends his apprentice (at liberty May 1), as Junior; four years' experience; tall. Address, Harrison, care of above.

TRAVELLER, excellent; London, Suburban, South Coast connection; 27; energetic. "Potash," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT or Manager of small Branch; unqualified; abstainer; Welshman; 7 years' experience; Cardiff district preferred. Williams, 11 East Street, Pontypridd.

LONDON or country; immediately; locum or permanent; qualified; credentials good. "Drugs," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR; 19; tall; Scotch; 3½ years' experience; accustomed to Light Retail and Dispensing; excellent references; passed Prelim. "Assistant," Kemp & Co., Lincoln.

LADY DISPENSER.—Hospital experience; 22; sole charge 16 months; complete Apprenticeship at counter; outdoors; London. "Waylands," Hayes, Middlesex.

EMPLOYMENT; permanent or temporary; Locum-tenens; can take entire charge; registered; references. X., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WHOLESALE: Wet, Dry, or Export; several years' experience with first-class London house; good Pill Maker and Coater; highest references. H. M., 9 Beulah Road East, Thornton Heath.

A Invoice or Warehouse Clerk in Druggists' Sundries Warehouse; aged 19; 3½ years' experience in similar capacity; excellent references. Address, A. C. Thomas, 21 Great Marylebone Street, W.

QUALIFIED Chemist, thoroughly experienced in all branches of the Store trade; first-class testimonials; London or suburbs. Address, 178/23, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER.—Provincial Representative of first-class London Drug House will shortly be open to accept another engagement. Address, 189/18, Office of THE CHEMIST AND DRUGGIST, 42 Cannon St., E.C.

WHOLESALE.—Advertiser seeks position of trust, as Cashier or Confidential Clerk; no objection to travel; good references. "Cortex," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

A **QUALIFIED** Gentleman desires situation, after Easter, in a first-class Dispensing and Prescribing Pharmacy (outdoors); good Counterman; accurate Dispenser; excellent references. Address, "Superfine," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A **ADVERTISER** would like situation as Assistant in a small country business, with a view to purchasing the same; Somerset or an adjoining county indispensable, Somerset preferred. Full particulars, terms, &c., to Kox, Chemist, 23 George Street, Portman Square, London, W.

To FIRMS REQUIRING A LONDON AGENT.—Advertiser, well connected and energetic, having well-situated offices and some spare time, is open to act as London agent and representative for a provincial or colonial firm of good standing; undeniable references &c., given. Address, "London," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A **ADVERTISER**, having had considerable experience as Traveller on the Continent (especially Balkan States and Russia), is open to act in that capacity for a good English house; best of references can be supplied as to character and business ability; conversant with the German, French, Spanish, and Slavish languages. M. B. S., c/o 163 Queen Victoria Street, London, E.C.

SITUATIONS OPEN—Cont.

ASSISTANT, about 23, indoors, for Retail, Prescribing, and Dispensing business; Extractor preferred. Address, with full particulars, enclosing photo, Pretty, 235 North End Road, Walham Green, S.W.

WANTED, immediately, a Junior Assistant, who has been accustomed to Select Dispensing business; must be a good writer. Apply, with full particulars, enclosing photo, to Whistton & Co., Chemists, Bath.

SENIOR Assistant, with Minor qualification, age about 25, indoors, where Junior is kept; must be a good Dispenser and Counterman; good references indispensable. Apply Morgan & Lawley, Kidderminster.

WANTED, Senior (qualified) Assistant. Apply, stating age, height, and where last, also when at liberty, enclosing photo (if convenient), to "Alpha," c/o Sanger & Sons, Winsley Street, Oxford Street, W.

JUNIOR; indoors; about 20; accustomed to Dispensing, light Retail; must be steady and gentlemanly. Send particulars as to salary, references, &c., with photo, to S. Parker, Chemist, Morecambe, Lancs.

WANTED, at once, a good Junior, used to first-class Dispensing, in Country business; outdoors; time for study. Apply, stating all particulars, with photo (which will be returned), to A. Althorpe, Chemist, Woking.

APRIL 9.—St. Leonard's.—An energetic, gentlemanly Assistant, about 22 years, qualified and accustomed to good-class business, to manage branch. Apply, with carte and usual particulars, J., 1 Harold Place, Hastings.

IMMEDIATELY, Junior, about 21, for putting up Stock and General Cash Retail; must be industrious and obliging; good references; live in, sleep out. Particulars, "Chemist," 30 Nelson Road N., Great Yarmouth.

WANTED, immediately, two qualified Chemists, accustomed to the Cash Store trade. Apply, stating age, height, and salary required, with photo (which will be returned), Mason & Co. (Limited), King Street, South Shields.

THOMAS G. STONHAM & SON, Maidstone, require a gentlemanly qualified Senior Assistant. Apply by letter, and state full particulars, age, height, experience, and salary expected; enclose photo, to be returned.

WANTED, a qualified Assistant; indoors; must have first-class references and be a good Prescriber. Apply (in first instance), stating experience and salary required, to Smith & Sons, Wholesale Druggists, Norwich.

JUNIOR Assistant (early in April), for Light Retail and Dispensing business; one able to Extract Teeth preferred. State age, height, experience, salary required (outdoors), and give references, J. Williams, 140 Victoria Road, Aldershot.

TRAVELLER wanted in Fancy Soaps, Perfumery, Druggist's Sundries, &c., for the North of England. Address, with full particulars, age, previous experience, &c., to E. N. B., c/o Wm. Dawson & Sons, 161 Cannon Street, E.O.

JUNIOR or Improver wanted at once; outdoors. Address, with full particulars, age, height, salary required, references, and what experience (with photo, if possible, to be returned), Mr. Cullwick, Chemist, Mayricket Street, Pembroke Dock.

ASSISTANT for good-class Retail and Dispensing business; 3 hours daily for study or recreation, 1 evening weekly, and alternate Sunday; salary £24; personal interview preferred. G. Dickinson, 72 Archway Road, Highgate, N.

JUNIOR or Improver; indoors; accustomed to good-class business, or one who has just completed apprenticeship would suit. Please state experience, salary, &c., to J. E. Gibson, Chemist, Reading. Applications not answered in 3 days, declined.

TOWN Traveller for Sundries, Bottles and Indian-rubber Goods; knowledge of Stores and Shippers indispensable; state age and previous engagements. Apply to 13/31, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

OUTDOOR Assistant wanted week after next: aged about 25; active pushing Counterman desired, but must also be a good Dispenser; hours 8 till 9.30, except Tuesday 9, Thursday 3, and Saturday 11. Good-child's Drug Stores, Harlesden, N.W.

At once, a Junior Assistant; indoors; about 22 or 23; must have been accustomed to a good-class business; 3 kept. Apply, with full particulars, salary expected, and enclose photograph, to W. Adams, Pharmaceutical Chemist, Shrewsbury.

WANTED, an experienced Assistant for a good-class Mixed Business; one able to speak Welsh preferred. Apply, with usual particulars as to salary (indoors), experience, &c., and whether qualified or not, to Watkin J. Thomas, Chemist, Aberdare.

RELIABLE Junior; must have been accustomed to a good-class Agricultural and General business; outdoors, but dinner and tea provided on the premises on all business days. Full particulars, enclosing photo, to Kemp & Co., Chemists, Lincoln.

JUNIOR, accustomed to an Agricultural and Family trade, and able to Extract Teeth; indoors only. Apply, stating age, height, and salary required, to H. C. Webb, Pharmaceutical Chemist, Buckingham. Please enclose photograph, which shall be returned.

WANTED, Assistant, about 22, for 2 or 3 months; must be well up in knowledge of the trade. Send carte, salary required, and the usual particulars, to Smart, Chemist, Steyning, Sussex.

MANAGER wanted for a small Retail and Prescribing business in West London. State age, references, salary, whether married or single, and when disengaged, to "Medico," c/o Messrs. Judd & Manners, 76 Cannon Street, E.C.

WANTED, Assistant, Minor, to manage Branch; aged about 26; good experience essential; if with small capital partnership entertained; also Junior Assistant about 20. Address "Ezra," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

IMMEDIATELY, a qualified Assistant (outdoors), about 23 or 24; must be energetic and accustomed to quick Retail and good-class Dispensing business. Apply, personally if possible, to Fellows & Bate, 44 Harrington Road, South Kensington, S.W.

TRAVELLER for India, with good experience of the Drug trade and of the Indian market, to Represent one or more Agencies. Apply, by letter, stating experience, qualifications, and terms required, to T. U. 177, Deacon's Advertising Offices, Leadenhall Street.

ABOUT middle of April, for a short period, a qualified Assistant; must be competent to take charge during illness and absence of principal. Apply, stating age, height, salary required (outdoors), and previous experience, to Dodds, Chemist, Hessle Road, Hull.

MANAGER wanted for Branch business; married; qualified; an energetic and capable man, of good appearance, will be liberally dealt with. Apply, with full particulars as to age and experience, with references, to "Pharmacis," c/o Bleasdale (Limited), York.

QUALIFIED Assistant as Manager; Branch business in busy locality; main road; must be a good Tooth Extractor; pushing and energetic; good reference required; salary and commission about £105 per annum, with furnished rooms. J. W. Feltwell, 91 Hammersmith Road, W.

SMART active Assistant wanted, about 25 years of age; outdoors; accustomed to Mixed and quick Cash Store business; must be obliging and attentive to duties. State salary, references, &c., and enclose photo, to Brown's Drug Co., 24 High Ousegate, York.

HOPWOOD & SON, Richmond, Surrey, require immediately a Junior Assistant or Improver; accustomed to good-class business, and with knowledge of Dispensing. Apply, stating full particulars, age, height, salary required (indoors), experience, and reference, as above.

MANAGING Assistant for Country business; qualified; must be capable and energetic; salary £52; indoors; with commission on increased business; hours light. Send photo, experience, and references, to "Branch," c/o Evans, Lescher & Co., 60 Bartholomew Close, London.

JUNIOR.—Wanted at once, a gentlemanly Junior or Improver for small business in quiet country town; one wishing for time for study preferred; indoors; comfortable home, healthy locality. Apply, with photo, stating salary required, &c., to Smith, Chemist, Chard, Somerset.

WANTED, a qualified Assistant about 24 years of age, with good address, and energetic, for a good-class Dispensing and Retail business; apply, with full particulars, previous engagements, salary required, &c., enclose photo, Foster Blades, 10 Gloucester Road, South Kensington.

IMMEDIATELY, a qualified gentlemanly Assistant as Senior; indoors; must be well up in Dispensing, smart, and good Counterman; for a good-class business; one seeking a permanency preferred. State age, height, salary required, references, &c., enclosing photo (to be returned), E. Michell-Smith, Chemist, Weymouth.

OUTDOOR Assistant, about 23, for Brisk Retail and Prescribing business; hours 8.30 A.M. to 10 P.M., one hour each for dinner and tea; Smudgy duty 6 to 9 P.M., 2 Sundays in 3. Apply, with full particulars, age, height, experience, and salary required (enclosing carte), to Cartwright, 69 Leytonstone Road, Stratford, E.

QUALIFIED Assistant (outdoors); not under 24; must speak French fluently, and be well up in French pharmacy; at once, or can wait a few weeks for a suitable man. Apply, by letter, with particulars of experience, salary, &c., to Mr. Ellerington, c/o Frizell & Co., Pharmaceutical Chemists, Leicester Square, London.

ASHARP Junior Assistant wanted at end of month for Mixed London trade, to live outdoors; one accustomed to a quick Country trade and seeking a permanency preferred; good references indispensable. Write, stating age, experience, salary required, &c., to 185/16, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

EARLY in April.—Qualified Assistant for Branch, light Retail and Dispensing in healthy watering-place; must be a neat, active, and obliging Counterman, trustworthy and reliable Prescriber. State salary (indoors) and usual particulars, also send photo. Applications not answered in 3 days respectfully declined. Jackson, Church Street Pharmacy, Blackpool.

At once.—Wanted, a smart, energetic, and trustworthy Assistant (qualified, and requiring permanency) to manage Retail Branch, &c.; must be a good Prescriber and Extractor; one with knowledge of Photography preferred. Write, stating age, experience, salary (outdoors), and full particulars (enclosing photo and references), to "Chemicus," 3 Hauiton Terrace, Grimsby. Also Apprentice (outdoors).

WANTED, at once, a smart and good Assistant, with first-class references; aged from 25 to 30; single; furnished bedroom found; salary £2 a week; for East-end Drug-stores; must be a good Dispenser and Prescriber. 198/10, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BUSINESSES FOR DISPOSAL—Cont.

£750.—A Light Retail and Dispensing Business in rising London suburb; returns £950, and increasing; low rent. Apply, A. H., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DEATH Vacancy.—Small Retail, with a valuable Speciality which can be considerably increased by an energetic man; Dentistry can also be added with advantage. Apply to "Chemicus," c/o J. Hill, Esq., Rowley Crescent, Stratford-on-Avon.

GOOD-CLASS, profitable, ready-money Business; few patients; suit qualified or unqualified man; healthy neighbourhood; returns under management £13 weekly; must be sold; offers requested. "Manager," 121 Lewisham High Road, S.E.

MUST be sold by the end of March, as proprietor has purchased larger business; Light Retail and Prescribing Business; no heavy trade and few patients; returns £350; price very low to an immediate purchaser. "Rex," 300 Ince Green Lane, Wigan.

A GENUINE Light Retail, Dispensing, and Prescribing Business, now doing, under management, £8 weekly; could be doubled by an energetic man; low rent and good prices. H. W., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CHEMIST Business for sale; carried on by the late G. Havard, Whitland, Carmarthenshire; to be sold cheap; will suit young man with knowledge of Welsh. Apply for full particulars. Proprietor of Havard's Cambrian Liniment, 68 Cambridge Road, Kilburn.

FOR immediate disposal, Retail East London Business; established 75 years; main road; cash trade; to effect quick sale, £150 cash will be accepted. Owner wishing to live in the country. Address, "Vendor," c/o Messrs. Evans, Lescher & Webb, 60 Bartholomew Close.

FOR Sale, in one of the largest seaport towns in South Wales, main thoroughfare, a good Prescribing and Retail Business; splendidly fitted; well stocked; proprietor giving up on account of ill-health. "Zeta," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£250.—Branch Prescribing and Light Retail Business, with Post Office, in busy town in West Riding; returns £400 to £450, capable of improvement under personal management; only used seeing. Apply to "Hypo," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£250 or Valuation.—A Light Retail and Prescribing Business, situated in an increasing suburb of London; now taking £11 weekly; one Proprietary brings in £40 yearly; good house with bath-room; a bargain. "Suhurban," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£450.—Brauch Business; Light, old-established; main road, near London; returns £550; good house, double-fronted shop and side entrance; part purchase-money can remain; lease; rent £40. Apply, "Suburb," c/o Messrs. Davy, Yates & Hicks, 64 Park Street, Southwark, London.

UNUSUAL opportunity for young qualified or unqualified Chemist to commence business; 3,000 inhabitants; no chemist or doctor within three miles; every facility; very low rent; beautiful country; very little cash required. Particulars of "Melrose," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SMALL Ready-money Chemist's and Druggist's Business for Sale, situated in London working suburb; good profits; Surgery and Extracting could be added with success; price £120, all of which can remain on security. Address "Safron," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CHEMIST, Druggist, capitally fitted and situated, main thoroughfare of immense traffic, N.W.; returns £600 yearly, easily increased; going £480 or close offer, including about £250 stock; good house; rent £70, worth £100; lease 14 years; speedy sale imperative. Haines & Co., 16 Red Lion Square, Holborn.

CARDIFF (near).—£320; a Retail and Prescribing Business; returns last year £1,055, solely under management; profits about £400; occupying one of the best positions in the most rapidly-increasing town in Wales; satisfactory reasons; must be sold at once. 197,22, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CHEMISTS.—An aged gentleman offers his Business for Sale, situated a short distance from London; pleasant locality; garden; population about 10,000; convenient premises; private entrances; moderate rent; incoming between £300 and £400. Apply, by letter, to S. W., Miss Atkinson, 40A King William Street, London Bridge.

OLD-ESTABLISHED, good Prescribing Business for disposal; scope for enterprising man; best position in main thoroughfare of Lancashire manufacturing town; annual returns over £350, half profit; price £250; full particulars to a bona-fide purchaser. Address, "Borough," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£700.—A Light Retail and Dispensing Business, in the Northern district of London: returns average £700 yearly, with good profits; commanding corner, with handsomely-fitted shop; good house and back premises; rent £50; satisfactory reasons for disposal. "Gordon," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£100 and £50 balance by easy instalments will purchase splendid Dispensing, Prescribing, Light Retail Business; well stocked; taking £8 weekly, capable of doing £20; handsomely-fitted double-fronted pharmacy; superior 10-roomed house; main marketing thoroughfare, city of Bristol; cost £150 to fit up 4½ years ago. "Situated," Chemist, 135 Lawrence Hill, Bristol.

BUSINESSES WANTED.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

WANTED, Business with net profit of not less than £250 per annum, with scope for increase; price about £700 preferred, but could invest £1,000 if necessary. "Cash," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, immediately, a good-class Country Business, with returns up to £1,000, and capable of increase; must have a fair-sized house; small garden desirable. Address, "Saline," c/o McGegeson & Co., 14 Miles Lane, London, E.C.

PHARMACEUTICAL Chemist wishes to purchase good sound Business in Yorkshire; strictest confidence; £1,000 at disposal; must hear thorough investigation. Apply, "Energy," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A RELIABLE Retail and Dispensing Business in or near London, returning £700 or more, or would undertake the management of a good business with view to partnership or purchase. Replies treated confidentially. J. R. W., c/o Messrs. Newbury & Co., 1 King Edward Street, E.C.

I AM anxious to buy for cash a first-class Country Business doing a good turnover, where assistants are kept; Agricultural or unopposed Business not objected to, or a Dispensing one at Seaside; references given and required; agents' letters and small businesses ignored. "Bouf-fide," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

M ESSRS. BERDOE & CO., of 30 Jewry Street, City, have at the present time a number of clients desirous of purchasing Businesses in both town and country, having cash at command from £500 to £3,000; gentlemen wishing to dispose of their Businesses should communicate with us at once; we are often enabled through our large connection to effect a transfer in a few days; strict confidence guaranteed; terms sent on application.

PARTNERSHIPS.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

WANTED, one (or more) gentleman of capital to push a valuable proprietary medicine; very profitable, and already established. Address, for full particulars, Mr. A. Phillips, Estate Agent, 41 Corporation Street, Manchester.

TO LET.

S HOP to Let.—Capital Shop and House to Let in the High Street, St. Mary Cray, Kent; good opening for Chemist; rent £40. Apply, Nash, St. Paul's Cray.

S HOP to Let as Chemist's; first-class position; no opposition; plate-glass front will be put in to suit tenant; splendid house; rent £100. Apply Sandon, 327 Harrow Road, N.

T O Let or for Sale.—A prominent corner Premises, situate at Malvern Terrace; splendid position for a Chemist and Druggist; a shop-front will be put in and a lease granted to a responsible tenant. Apply, Lowes, Son & Watkins, Estate Agents, Swansea.

T O Chemists and Druggists.—To Let, in a good central position in Dover, a newly-erected Shop, with convenient dwelling-house; very suitable for a Chemist and Druggist, as no such business is at present in the neighbourhood. Apply to Messrs Terson & Son, Estate Agents, Dover.

SITUATIONS OPEN.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

WANTED, smart Junior Assistants; active, neat, accurate, and of good address. Anthony & Co., Chemists, Cardiff.

A QUALIFIED Assistant; indoors; about 24. State age, height, references, salary required, and enclose photo, to J. Bates, Chemist, Bicester, Oxon.

L.S.A. or Chemist Assistant wanted; must be registered; aged 40; duties light. Apply to Mr. Hills, 91 Lower Marsh, Lambeth.

JUNIOR or Improver in Dispensing business. State height, age, and salary required, photo to be returned to M. Eglington, 35 Richmond Road, Addison Park, W.

WANTED, at once, Junior for good Country business; comfortable home; time for study. Send photo, with particulars, to F. Downing, Chemist, Launceston.

WANTED, a competent Assistant as First Hand in smart Family business; must be a good active Counterman; indoors. Francis & Co., Chemists, Wrexham.

PART-TIME.—Comfortable home with board and lodging offered in return for the above; must be thoroughly competent. Apply, 175 Uxbridge Road, Loudon, W.

ASSISTANT, for April 3; 21 to 23; Country Retail and Dispensing; steady and obliging. State age, height, salary, and references, to John Gilling, Ph.Ch., Saffron Walden.

WANTED, a Junior Assistant for the Retail counter; outdoors. Apply, giving full particulars, to D. P. Roberts, Drug and Chemical Store, 120 North End, Croydon.

SITUATIONS WANTED—Cont.

A SSISTANT: 23; disengaged. "Radix," 58 Portman Road, Harrow Road, London.

J UNIOR or Dispenser; age 22. L. J. K., 27 Camden Hill Road, Upper Norwood.

I MPROVER: 19; 5 ft. 7 in.; small salary. S. Billington, 59 Hopwood Street, Barnsley.

L OCUM-TENENS: 38; qualified; abstainer; disengaged. "Minor," 40 Palace Street, S.W.

D ISPENSER or Assistant; aged 27; tall; good references; qualified. "Medicus," 564 Fulham Road.

S ENIOR: 11 years' London and provincial experience; qualified. Davies, 173 Sloane Street, W.

A SSISTANT: country preferred; good references. "Disengaged," 47 Evershot Road, Tollington Park, N.

D ISPENSER to Surgeon; temporary or otherwise. "Dispenser," 20 Stourness Street, Tollington Park.

A SSISTANT: 23; 7 years' experience; unqualified; outdoors. M., 72 Saltman Crescent, West Kilburn, W.

J UNIOR, in Light Retail business; indoors; 5½ years' experience; height 6 ft. R. Stogursey, Bridgwater.

J UNIOR: 21; in London; 4 years' good experience; disengaged April 6. Lloyd Jones, 218 High Street, Bangor.

E XPERIENCED Assistant; willing to give part time or in emergency. Davis, Chestnuts, Gordon Hill, Enfield.

J UNIOR or Assistant; 23; unqualified; good Dispenser; 7 years' experience. W. S., 5 Ball Street, Kensington, W.

I MMEDIATELY: 6 years' experience good Dispensing; aged 21; height 5 ft. 6 in. Howard, 42 Prospect Hill, Redditch.

A S Dispenser or otherwise; outdoors; aged 29; Minor; West-end and City experience. H. S., c/o W. Holland, 82 Walworth Road.

E NGAGEMENT as Traveller wanted; town; highest credentials. 15/16, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

M ANAGER. Locum, Assistant; married; abstainer; Extractor. 197/38, Office of THE CHEMIST AND DRUGGIST, 42 Cannon St., E.C.

P ART-TIME: disengaged evenings or every other Sunday; Stock or Counter, or Dispenser to Surgeon. "Chemist," 82 Crowndale Road, N.W.

E XPERIENCED Assistant (outdoors); unqualified; Extractor; tall; good references. Lloyd, 95 Thompson Street, Rochdale Road, Manchester.

A SSISTANT, good-class; Mixed country; 5½ years previous, 2 years last situation; height 6 ft. 1 in.; aged 33. T. B. Rowe, Adversane, Billingshurst.

M ANAGER or Locum-tenens; qualified; experienced; excellent references; disengaged early in April. B., c/o Mr. Denney, Chemist, North Walsham.

C LERK.—Situation required in provinces; North preferred; excellent references. "March," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A S Second Assistant in a first-class Country business; tall; 30; qualified; short hours; moderate salary; outdoors preferred. C. E. T. S., 3 Wyndham Street, W.

YOUNG Man (18) wants situation in Wholesale or Retail; some experience. "Reliable," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

M ANAGER or Senior; qualified; 30; varied London experience, town or country; unexceptional references. Meade, 64 Elspeth Road, Clapham Junction.

M ANAGER, Senior, Locum-tenens; experienced in first-class business; Photographic and Optical; married; excellent reference. L. Munro, 5 Grand Parade, St. Leonard's.

A SSISTANT or Manager; Minor; married; Prescriber, Extractor, Photography; well up in all branches. 195/23, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

M ANAGER or Senior; qualified; married; country preferred; West-end and provincial experience; good reference. "Bonns," 2 Richard Street, Pinderfield Road, Wakefield.

YOUTH (16), well educated, desires a situation in London with Analytical or Manufacturing Chemist; knowledge of French, German, and Chemistry. 3 Paragon, New Kent Road.

L ONDON (City preferred); outdoors; as Assistant; aged 29; many years' City and continental experience; excellent references; tall; single; qualified. "Chemist," 41 Moorgate Street, E.C.

N O SALARY.—Lady as Improver. X. Y. Z., c/o Sub-librarian, Literary Society, Tunbridge Wells.

J UNIOR: 22½; qualified; good references; outdoors; London. "Ebenezer," 12 Falmouth Road, S.E.

E XPERIENCED Assistant, accustomed to warehouse and town counter of London Wholesale, desires engagement in Wholesale or Mixed business. "Assistant," 7 Ashbrook Road, Upper Holloway.

A SSISTANT (outdoors), competent Branch Manager, or First Counterman; aged 38; varied experience; Good Extractor; first-class references. 17/27, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

G ENTLEMAN, having had considerable experience in West-end Dispensing establishments, seeks engagement as Dispenser or Front Counterman; tall; good appearance; aged 35; West-end preferred. A., 28 Merton Road, Kensington, W.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

WANTED, £10 shares in the Chemists' Aerated and Mineral Water Association (Limited); also £1 shares. State lowest cash price, "Chemist," 96 High Street, Grays.

R USSIAN Ergot of Rye offered by A. Tennenbaum, Krementschug (Russia), and Mattentwiete 10, Hamburg. The advertiser seeks a qualified agent with best references for selling Russian drugs and other Russian produce.

A MERCHANT, for many years established in Vienna, and who is well acquainted with the Varnish, Paint and Drug business, seeks the agency for Austria-Hungary of a first-class English Varnish factory and of some articles (specialities) in this line. Can furnish best references. Address, N. P. 3,094, c/o Otto Maass, Vienna, Austria.

HAVING purchased the entire stock of a Chemists' Shop Fitter, consisting of counters, wall, counter, and centre cases, desk and cases, ranges of drawers, dispensing-screens, carboys, specie-jars, shop-rounds, jars, window-enclosures, &c., &c., same will be sold at 33½ per cent. off stock-book prices; 12 ft. run of drawers, glass labels, shelving and corruves over, lockers under, £7 5s. Philip Josephs, 54 Old Street, City Road, London, E.O.

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